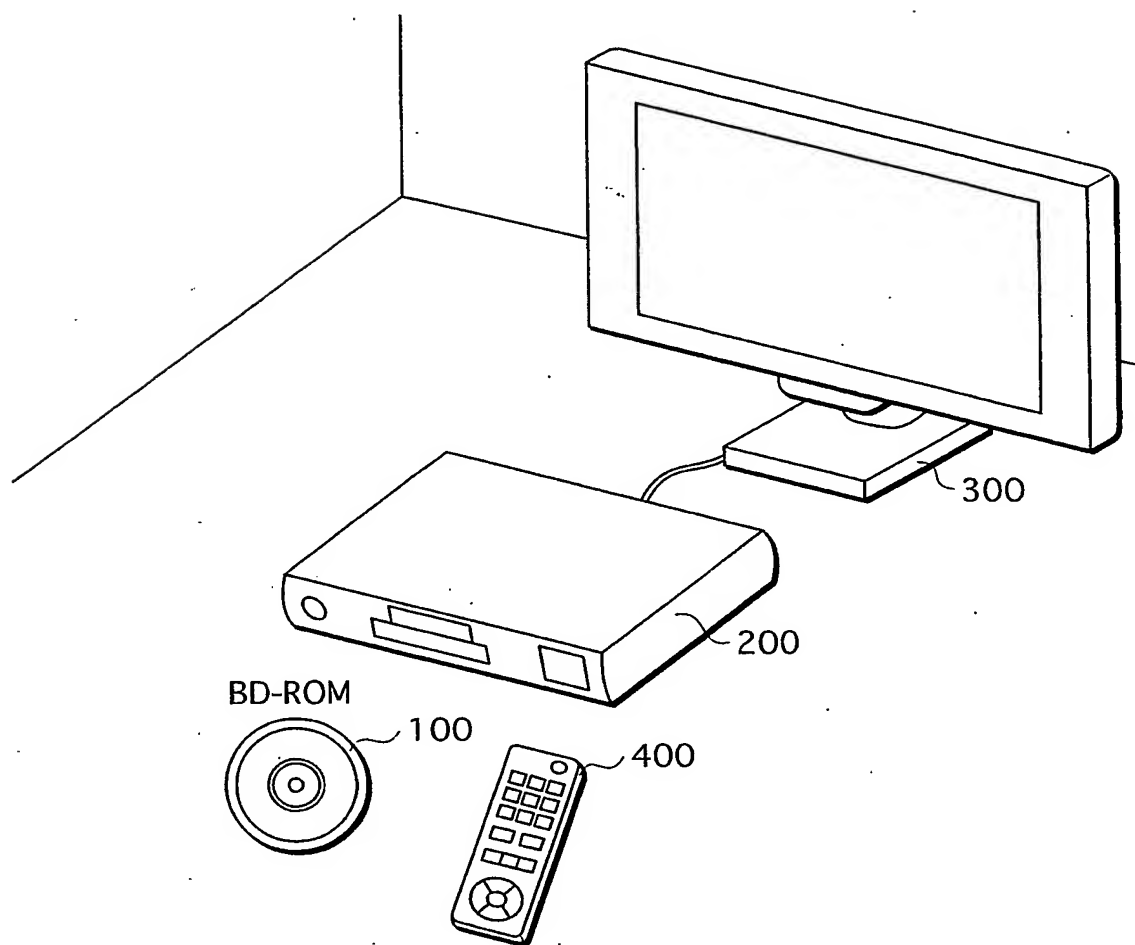
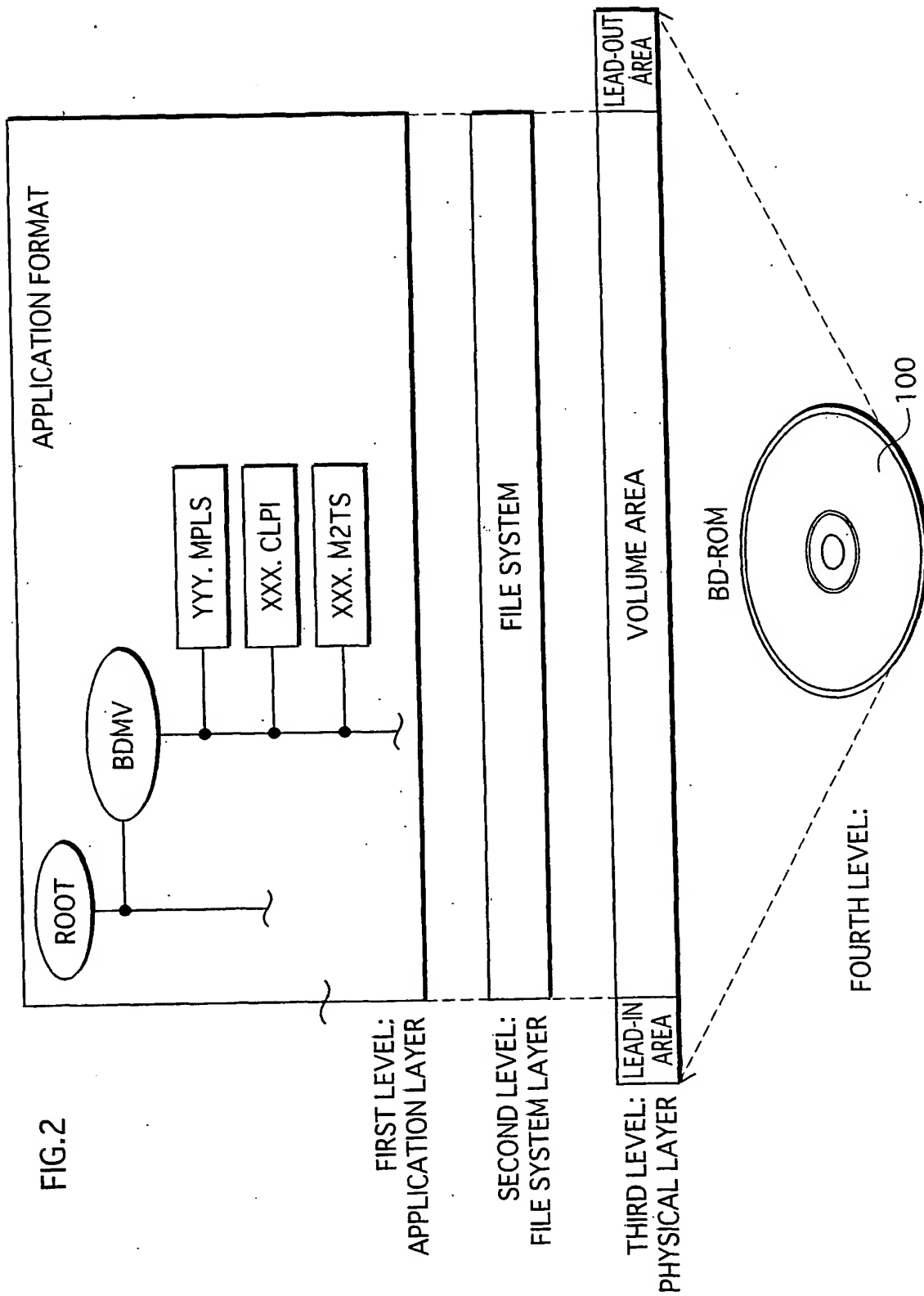
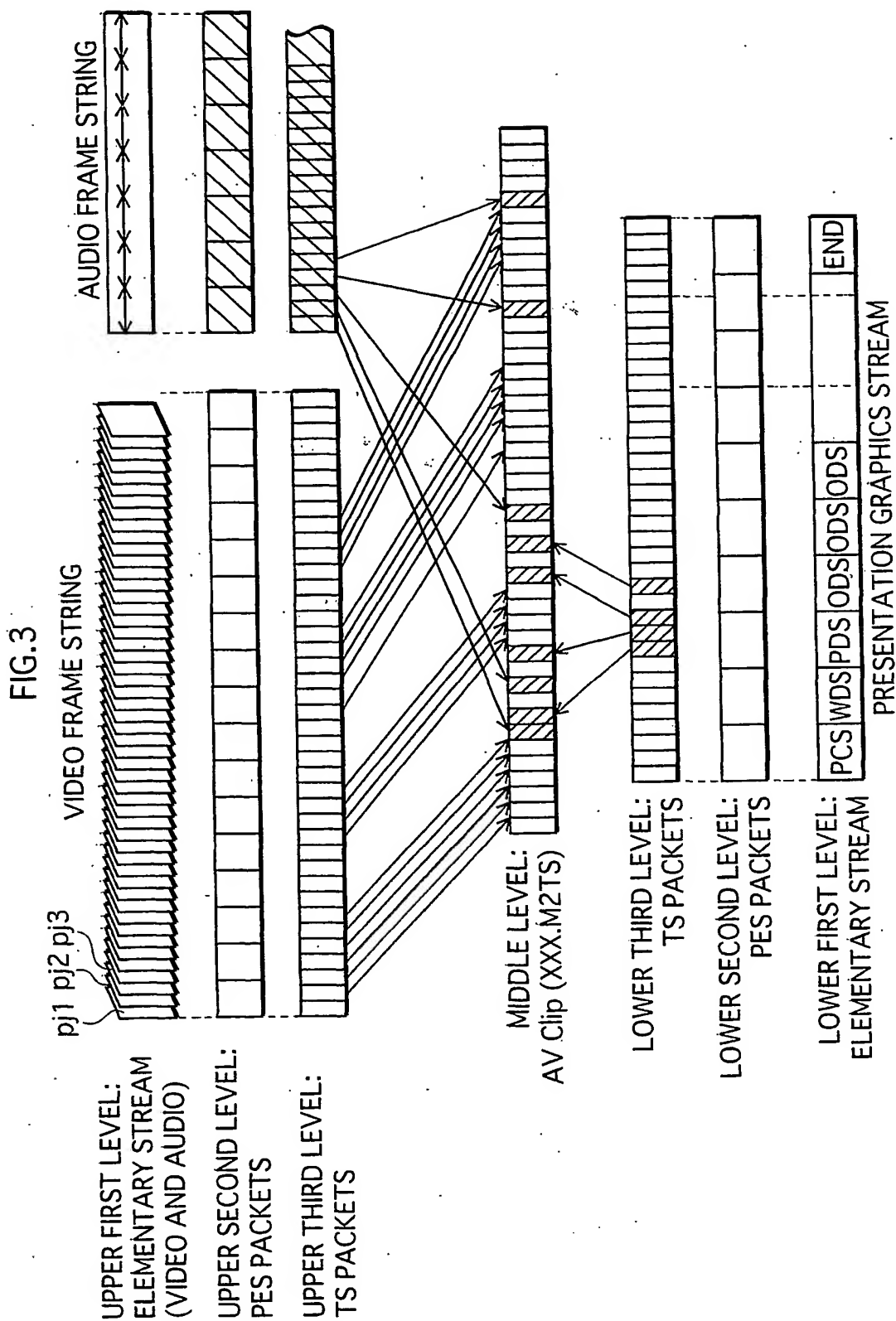


FIG.1







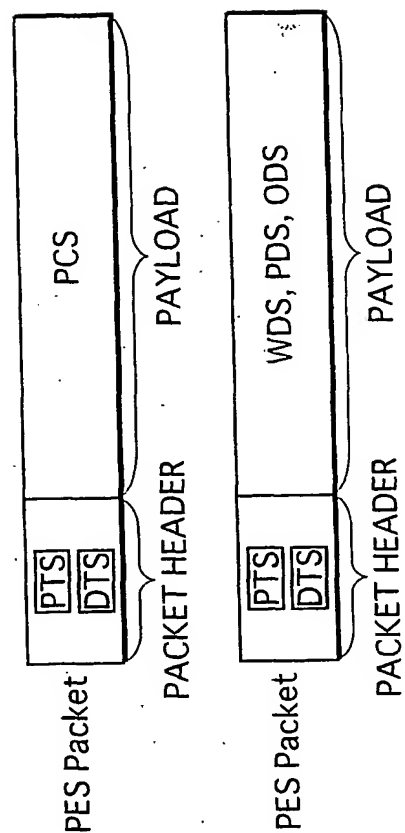
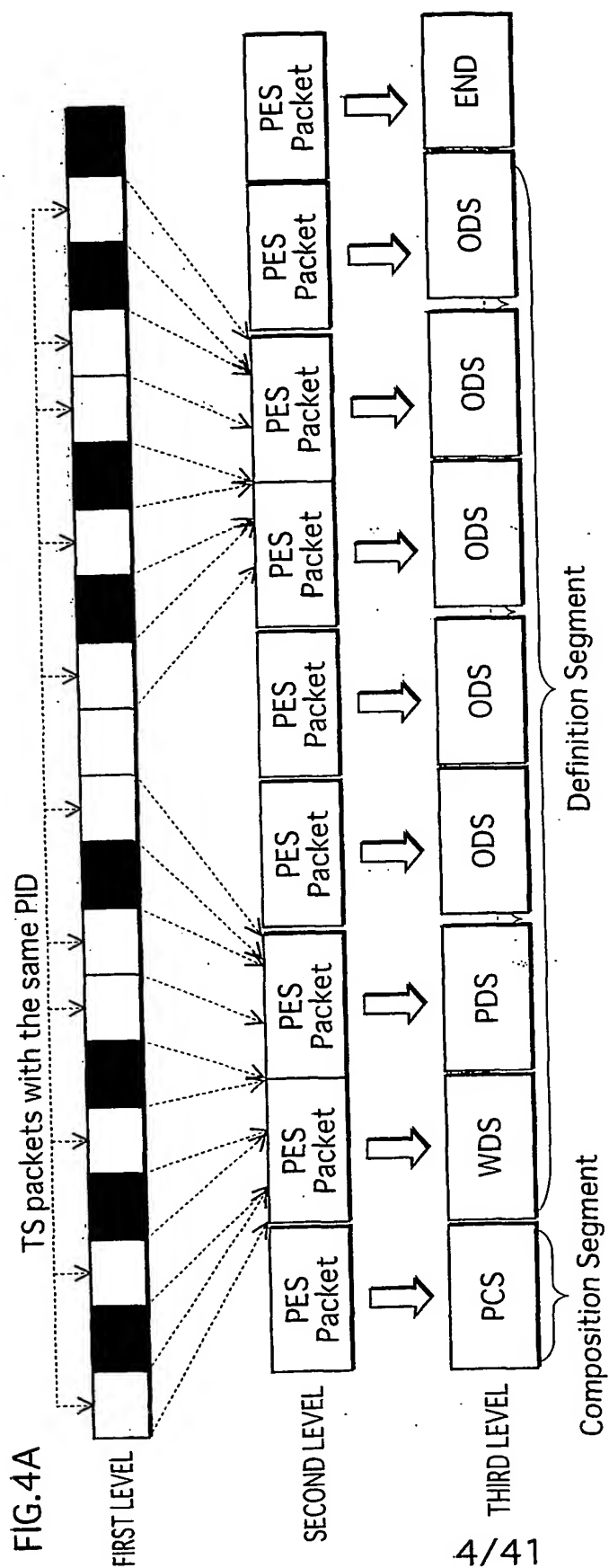


FIG. 4B

FIG. 5

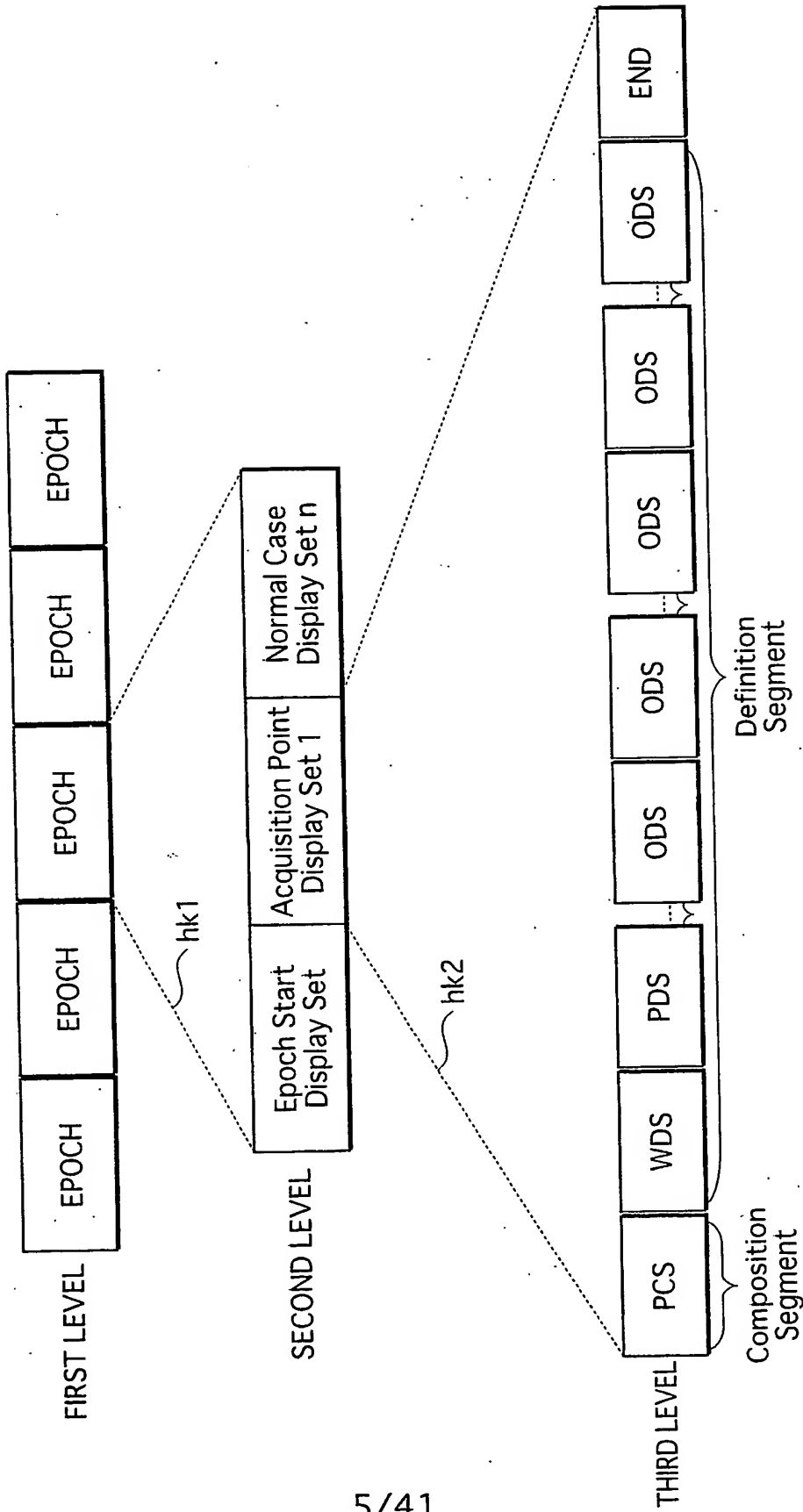


FIG.6

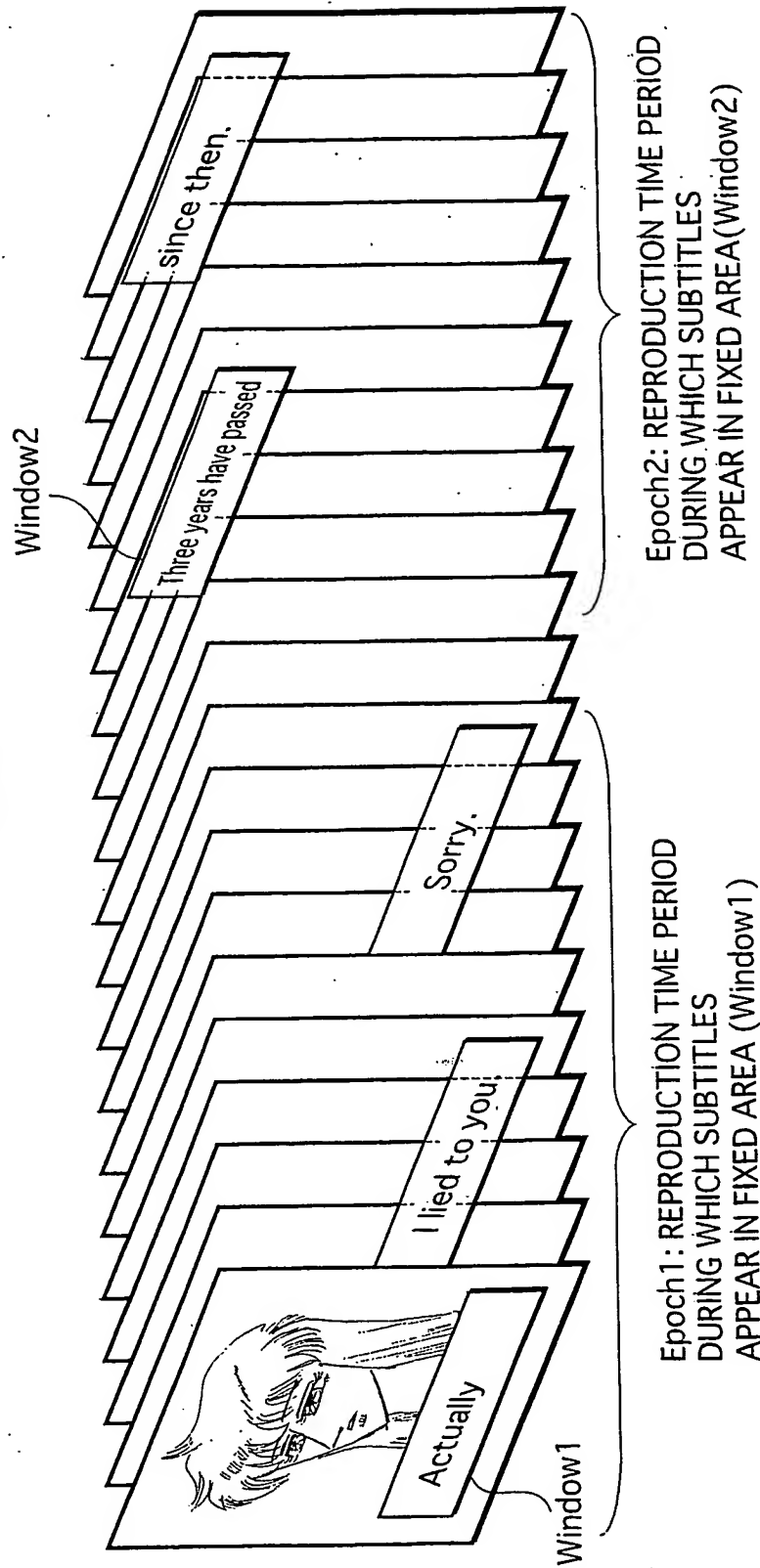


FIG.7A

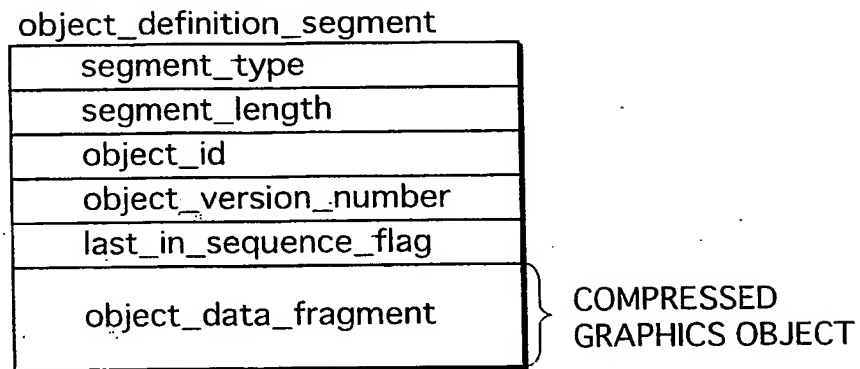


FIG.7B

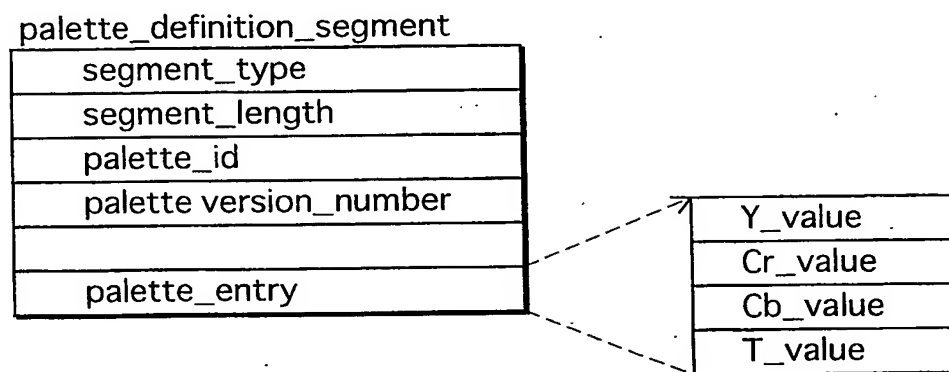


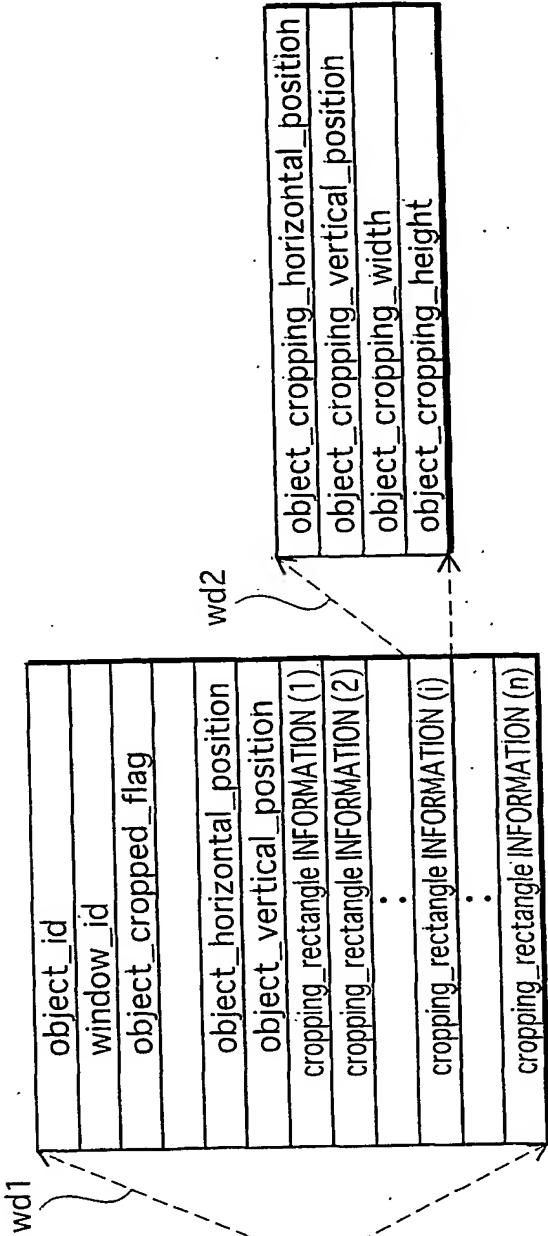
FIG.8A

window_definition_segment				
window_id				
window_horizontal_position				
window_vertical_position				
window_width				
window_height				

FIG.8B

presentation_composition_segment

segment_type	
segment_length	
composition_number	
composition_state	
palette_update_flag	
palette_id	
composition_object(1)	
composition_object(2)	
:	
composition_object(i)	
:	
composition_object(m)	



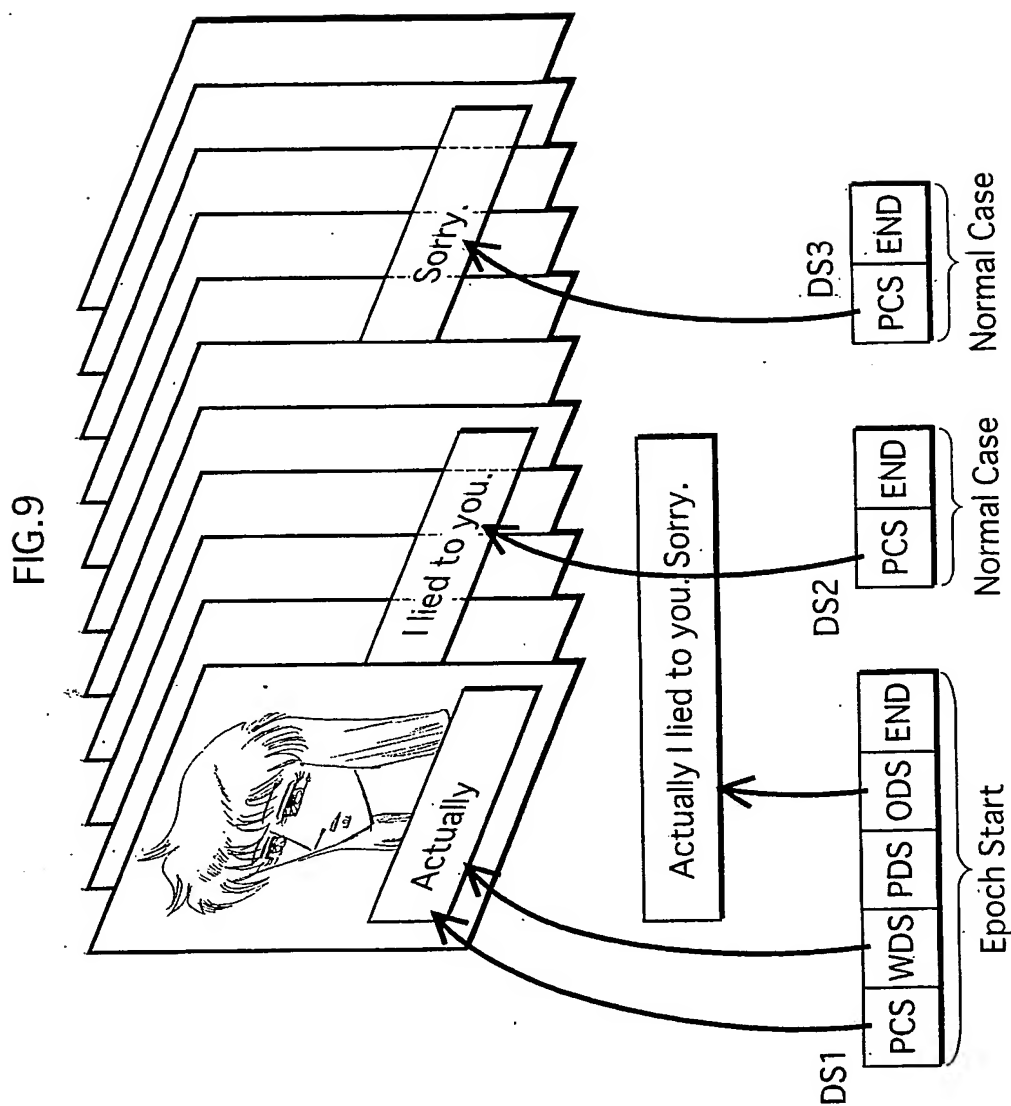


FIG.10

EXAMPLE DESCRIPTION
OF PCS AND WDS IN DS1

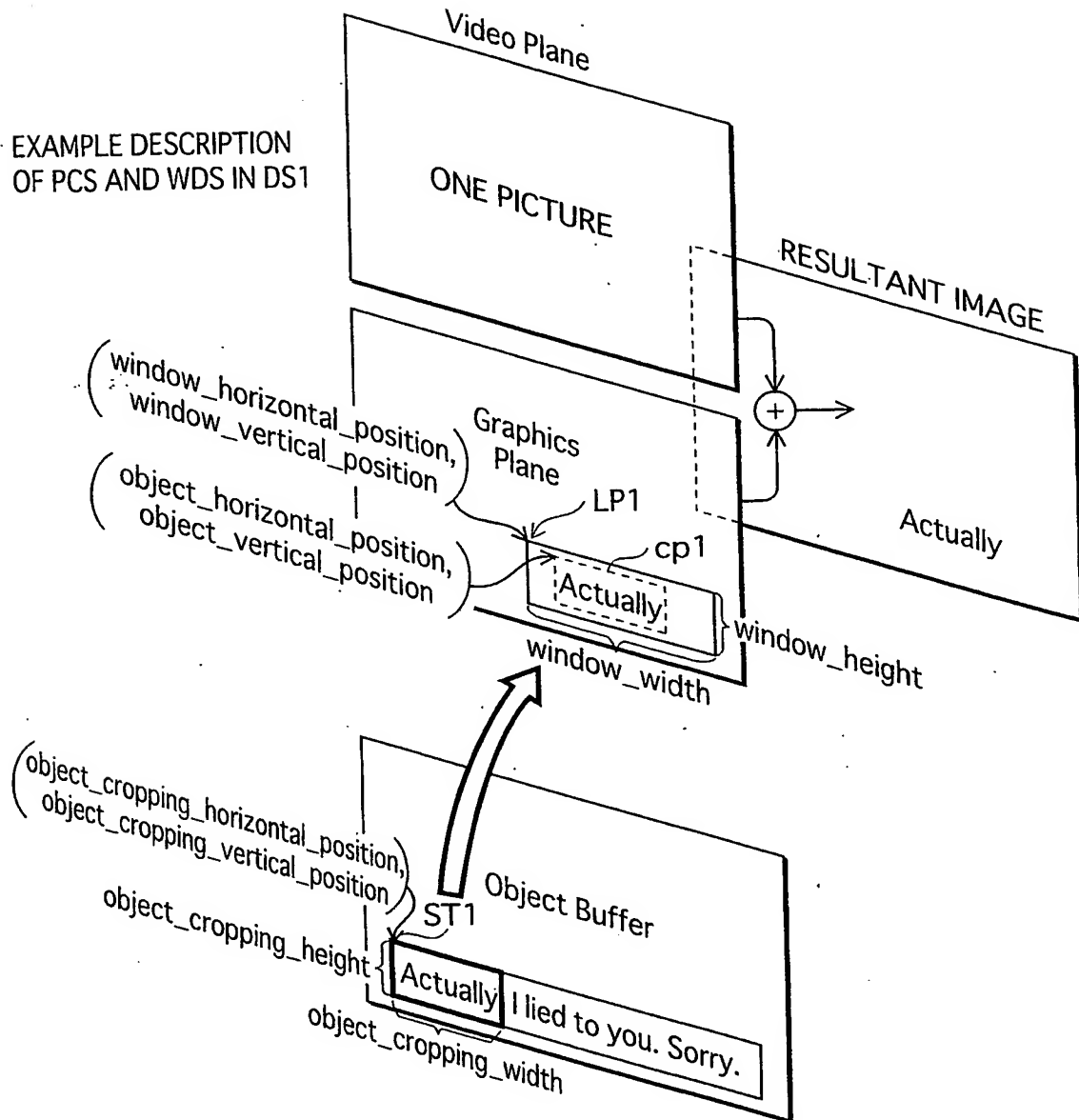


FIG.11

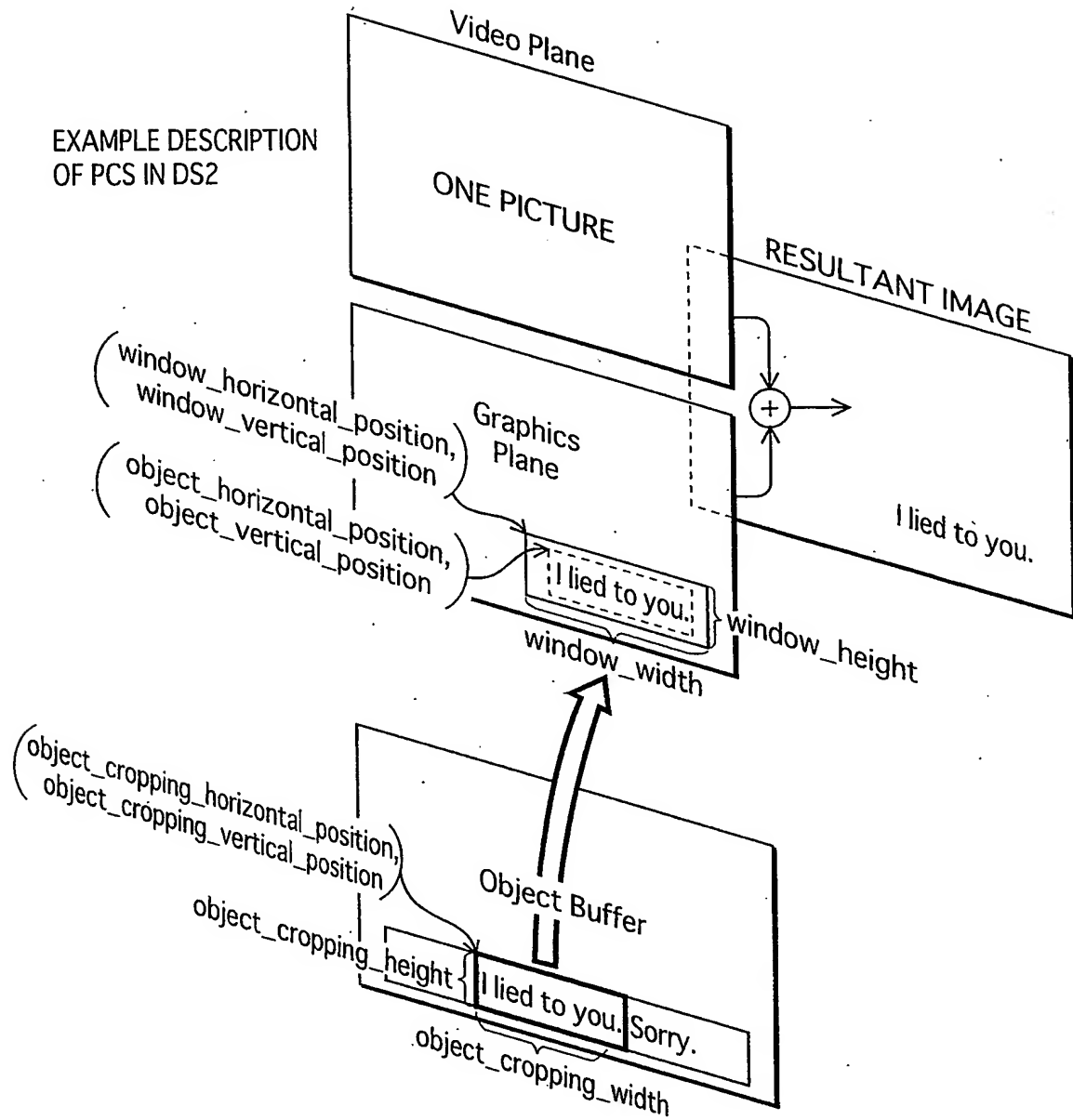
EXAMPLE DESCRIPTION
OF PCS IN DS2

FIG.12

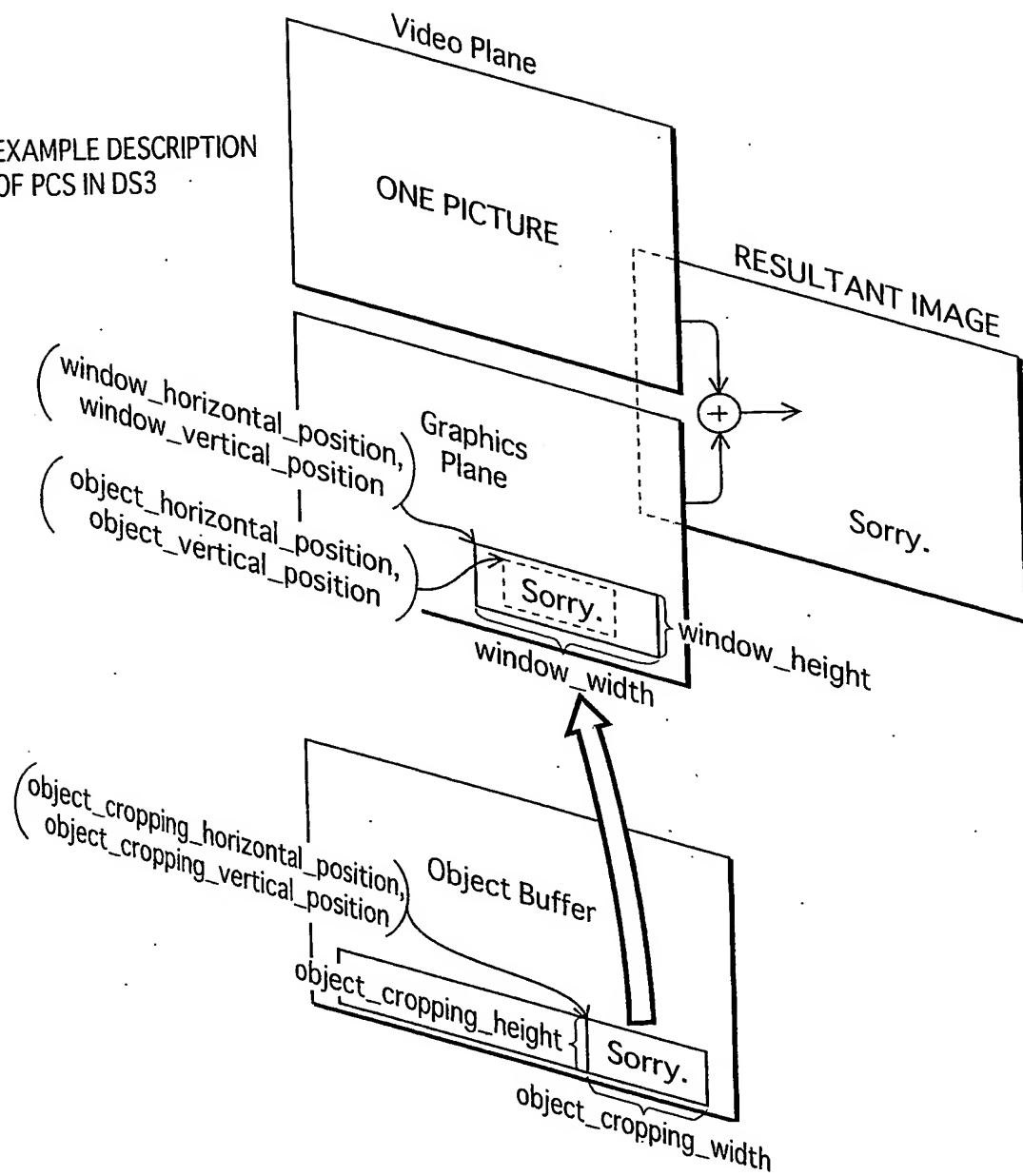
EXAMPLE DESCRIPTION
OF PCS IN DS3

FIG.13

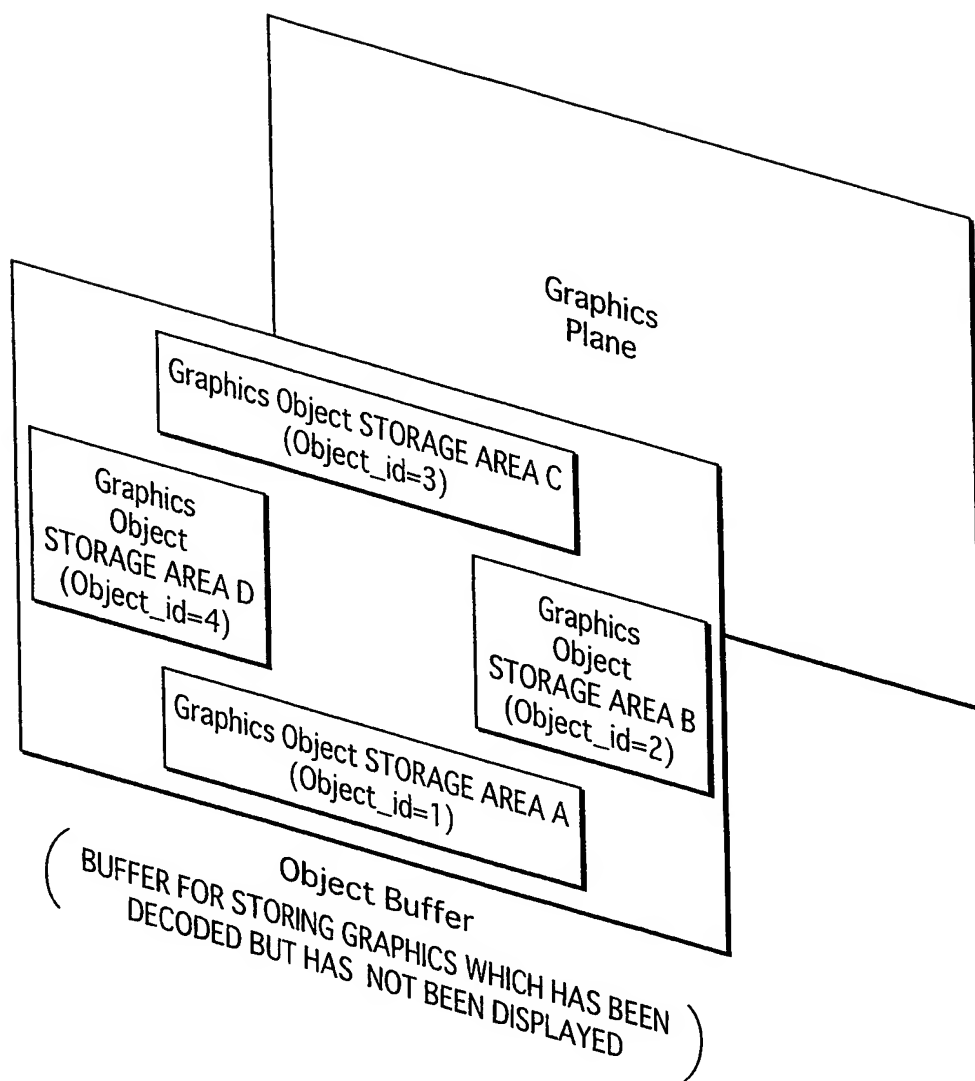


FIG. 14 $PTS(DSn[PCS]) \geq DTS(DSn[PCS]) + DECODEDURATION(DSn)$

Where:

- $DECODEDURATION(DSn)$ is calculated as follows:

```

decode_duration = 0 ;
decode_duration += PLANEINITIALIZATIONTIME( DSn ) ;
if( DSn. PCS. num_of_objects == 2 )
{
    decode_duration += WAIT( DSn, DSn. PCS. OBJ[0], decode_duration ) ;
    if( DSn. PCS. OBJ[0]. window_id == DSn. PCS. OBJ[1]. window_id )
    {
        decode_duration += WAIT( DSn, DSn. PCS. OBJ[1], decode_duration ) ;
        decode_duration += 90000*( SIZE( DSn. PCS. OBJ[0]. window_id )//256*106 ) ;
    }
    else
    {
        decode_duration += 90000*( SIZE( DSn. PCS. OBJ[0]. window_id )//256*106 ) ;
        decode_duration += WAIT( DSn, DSn. PCS. OBJ[1], decode_duration ) ;
        decode_duration += 90000*( SIZE( DSn. PCS. OBJ[1]. window_id )//256*106 ) ;
    }
}
else if( DSn. PCS. num_of_objects == 1 )
{
    decode_duration += WAIT( DSn, DSn. PCS. OBJ[0], decode_duration ) ;
    decode_duration += 90000*( SIZE( DSn. PCS. OBJ[0]. window_id )//256*106 ) ;
}
return decode_duration ;

```

- $PLANEINITIALIZATIONTIME(DSn)$ is calculated as follows:

```

initialize_duration=0 ;
if( DSn. PCS. composition_state == EPOCH_START )
{
    initialize_duration = 90000*( 8*video_width*video_height//256*106 ) ;
}
else
{
    for( i=0 ; i < WDS. num_windows ; i++ )
    {
        if( EMPTY( DSn. WDS. WIN[i], DSn ) )
            initialize_duration += 90000*( SIZE( DSn. WDS. WIN[i] )//256*106 ) ;
    }
}
return initialize_duration ;

```

- $WAIT(DSn, OBJ, current_duration)$ is calculated as follows:

```

wait_duration = 0 ;
if( EXISTS( OBJ. object_id, DSn ) )
{
    object_definition_ready_time = PTS( GET( OBJ. object_id, DSn ) ) ;
    current_time = DTS( DSn. PCS )+current_duration ;
    if( current_time < object_definition_ready_time )
        wait_duration += object_definition_ready_time - current_time ;
}
return wait_duration ;

```

FIG. 15

CALCULATION OF DECODEDURATION

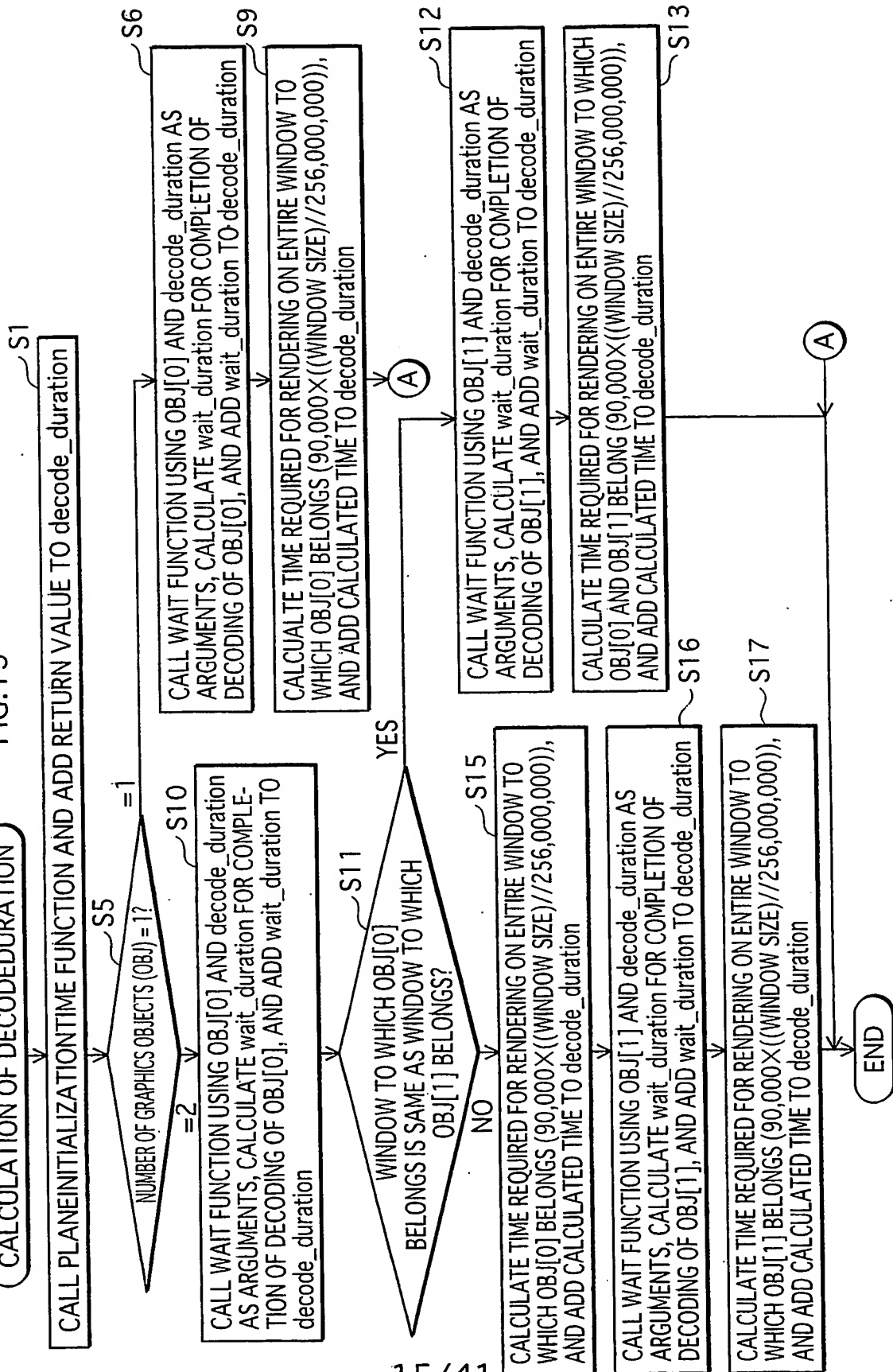


FIG.16A

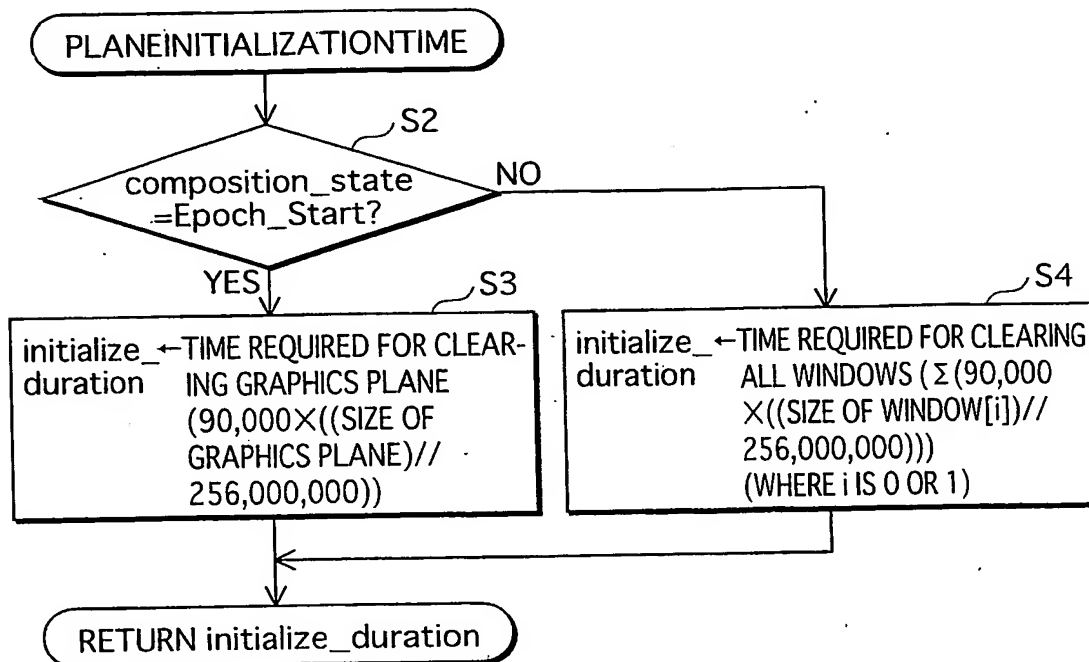


FIG.16B

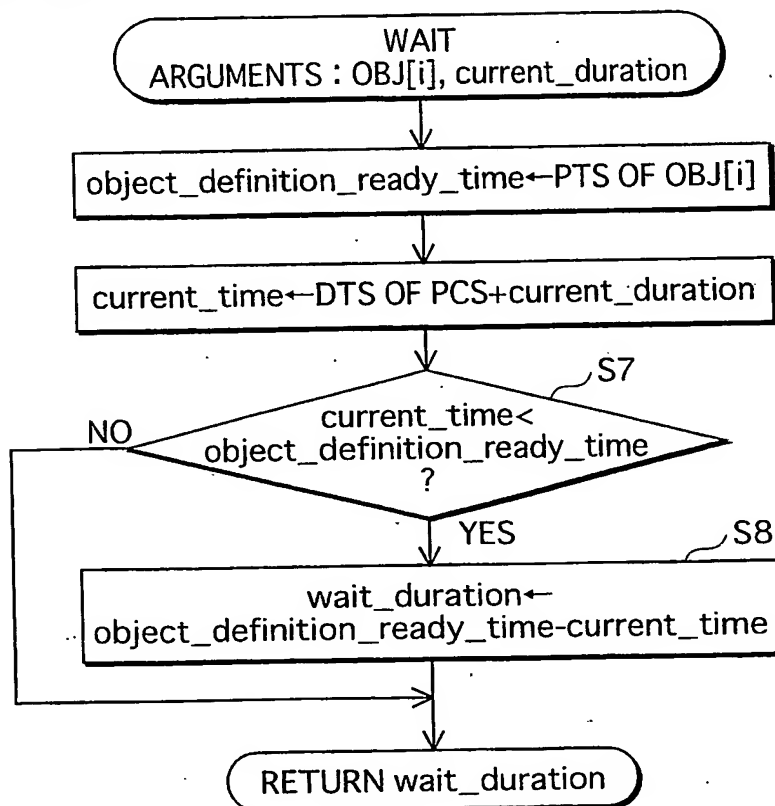


FIG.17A

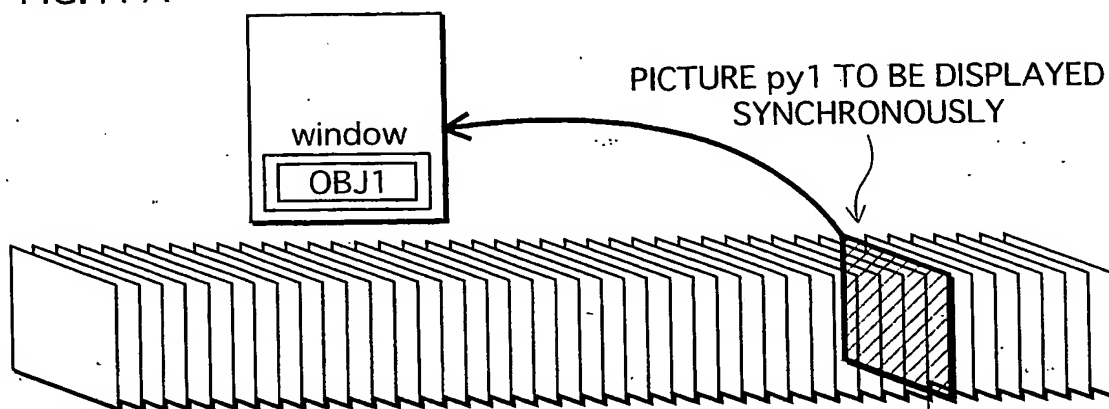


FIG.17B

DECODE_DURATION
 $= (2) + (3)$

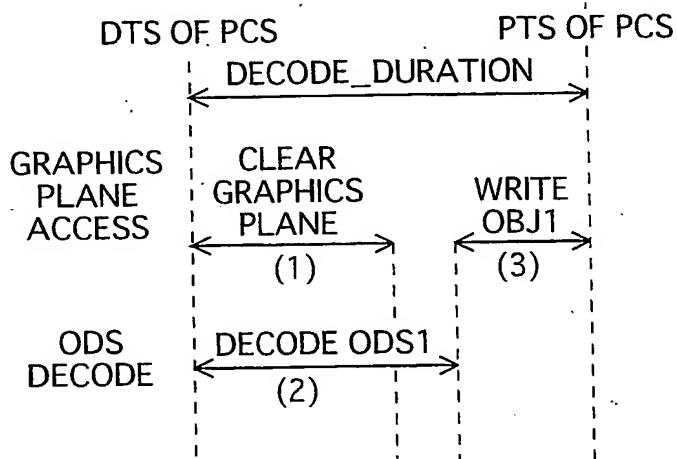


FIG.17C

DECODE_DURATION
 $= (1) + (3)$

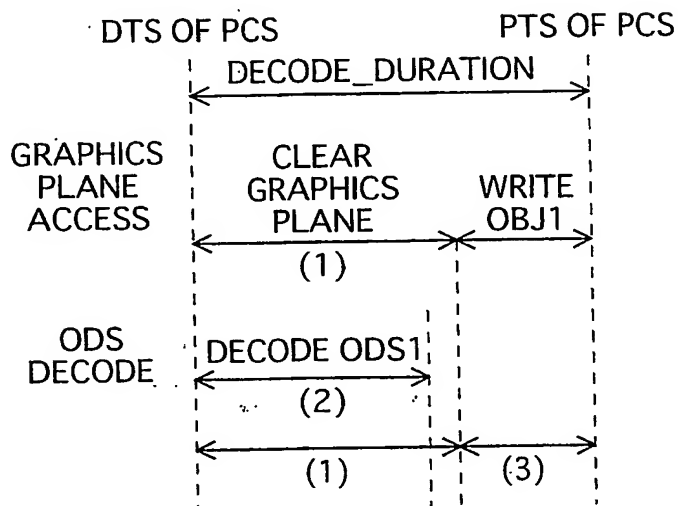


FIG.18A

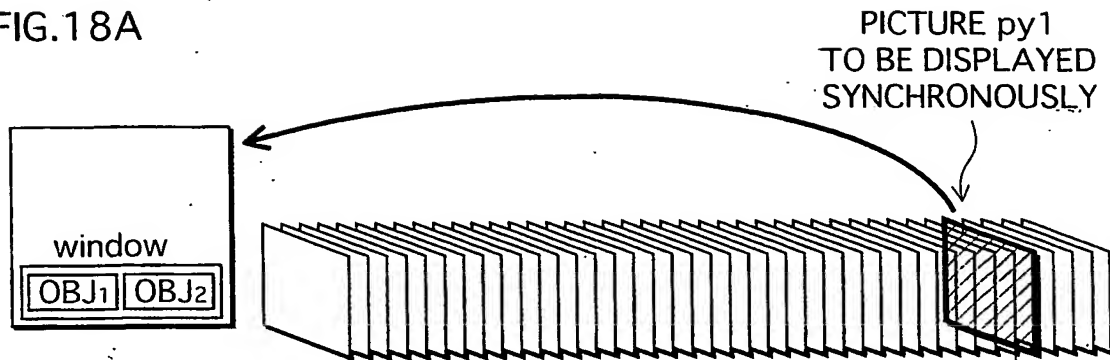


FIG.18B

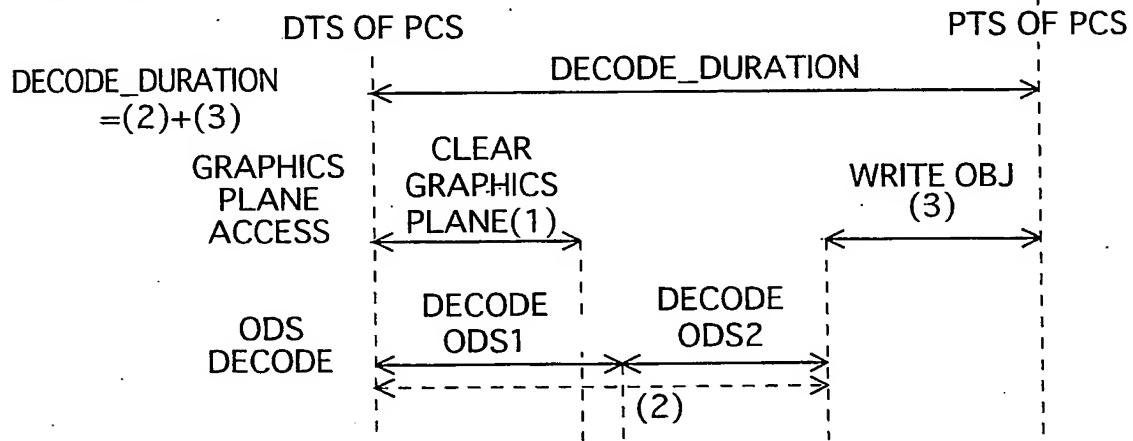
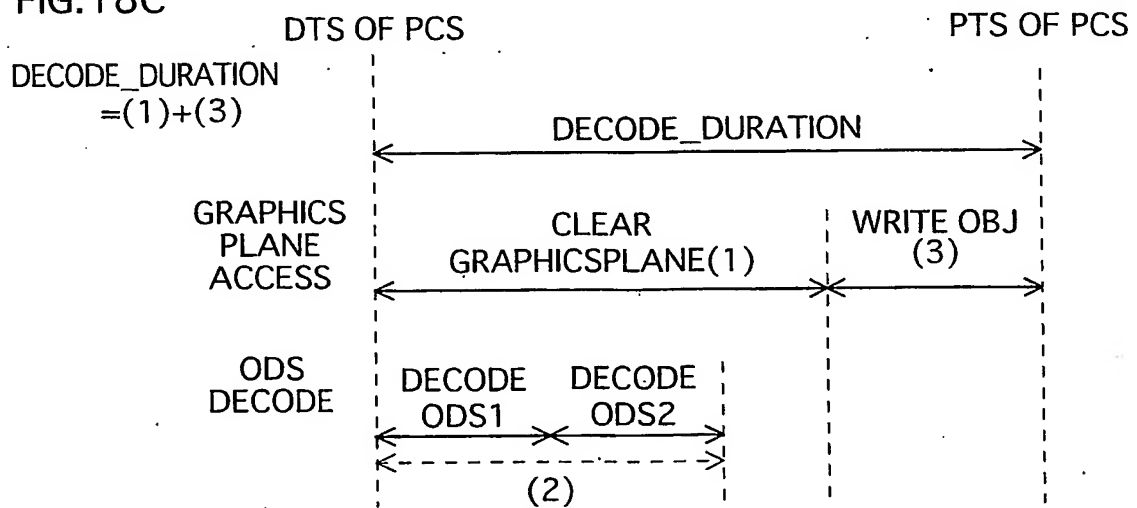


FIG.18C



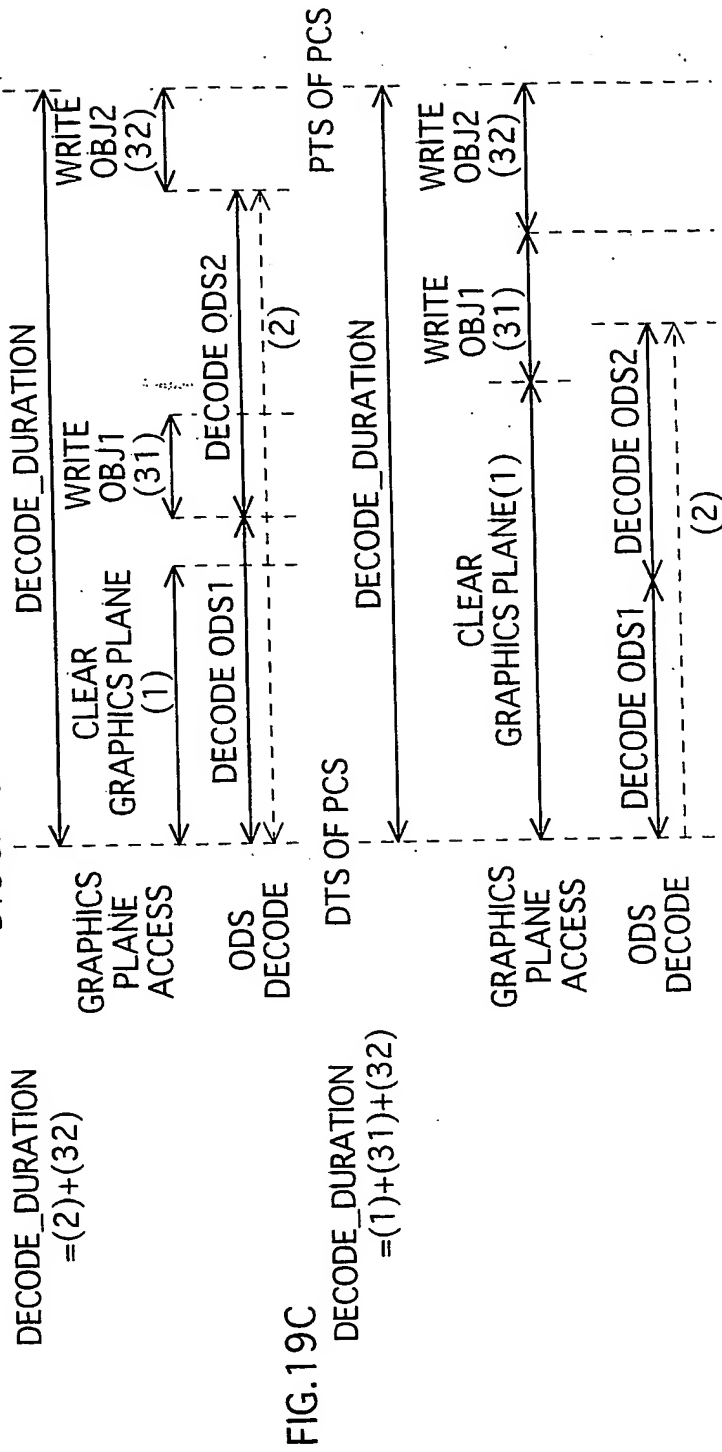
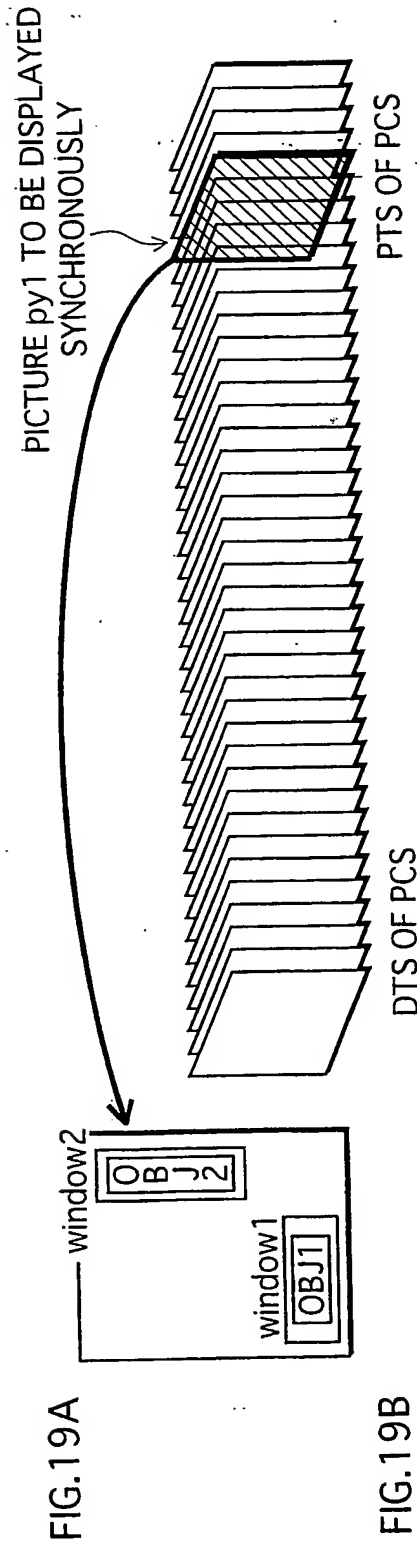


FIG.20

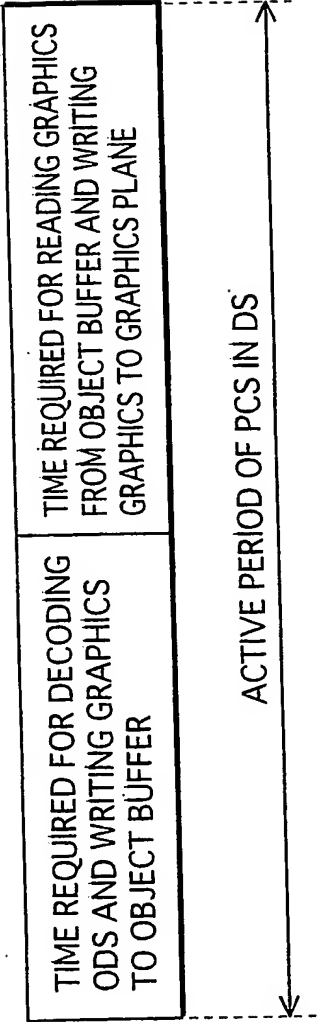


FIG. 21

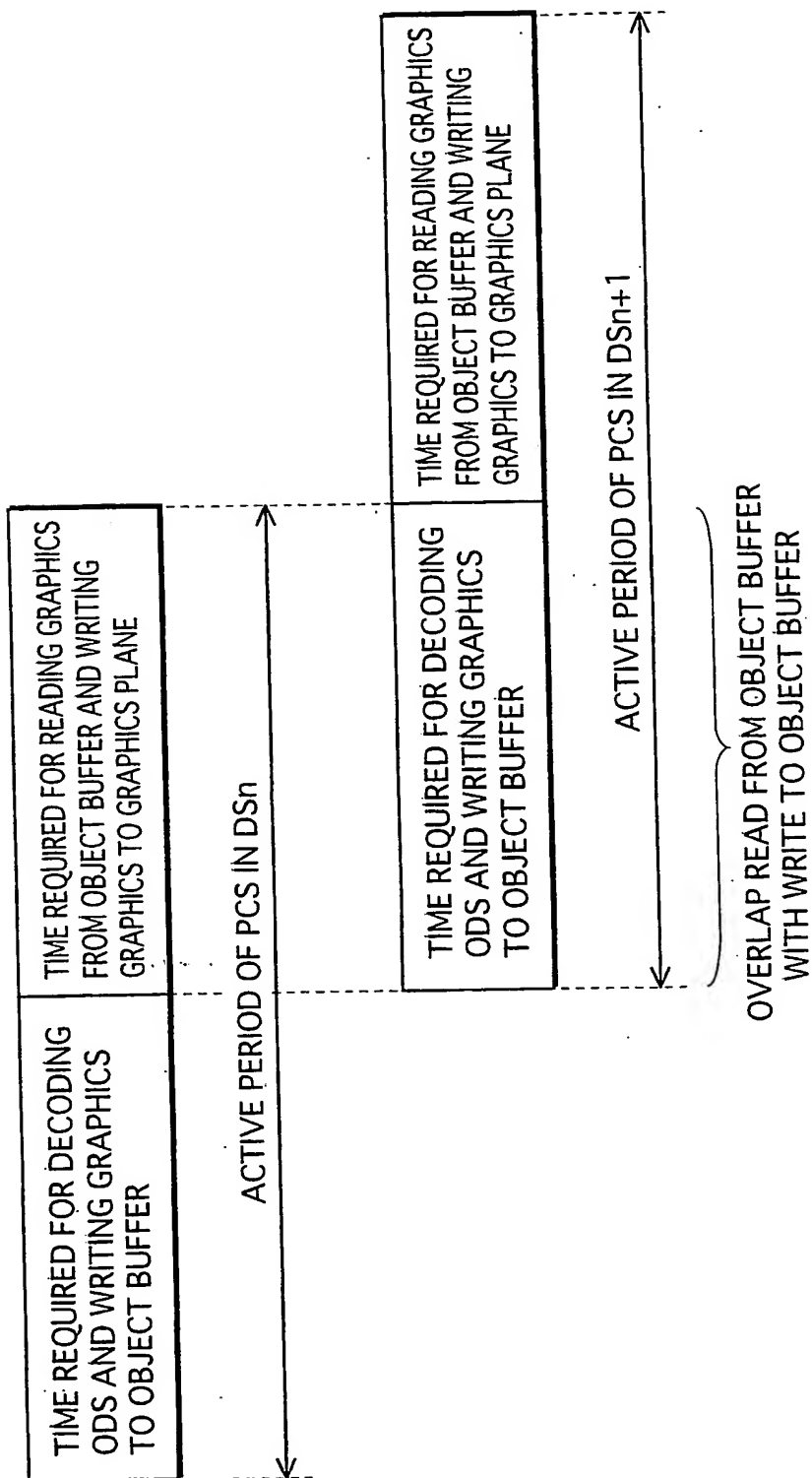


FIG.22

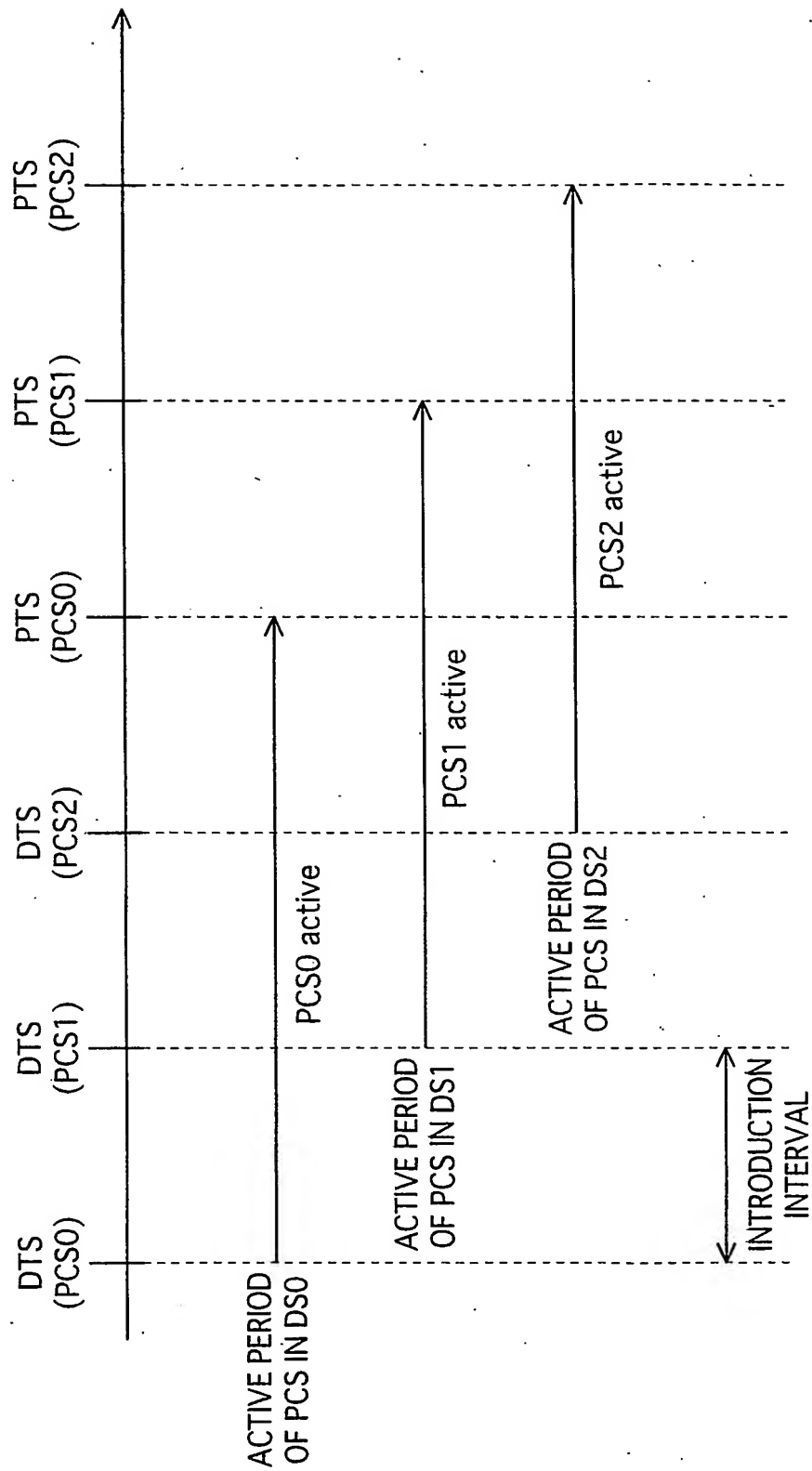


FIG.23

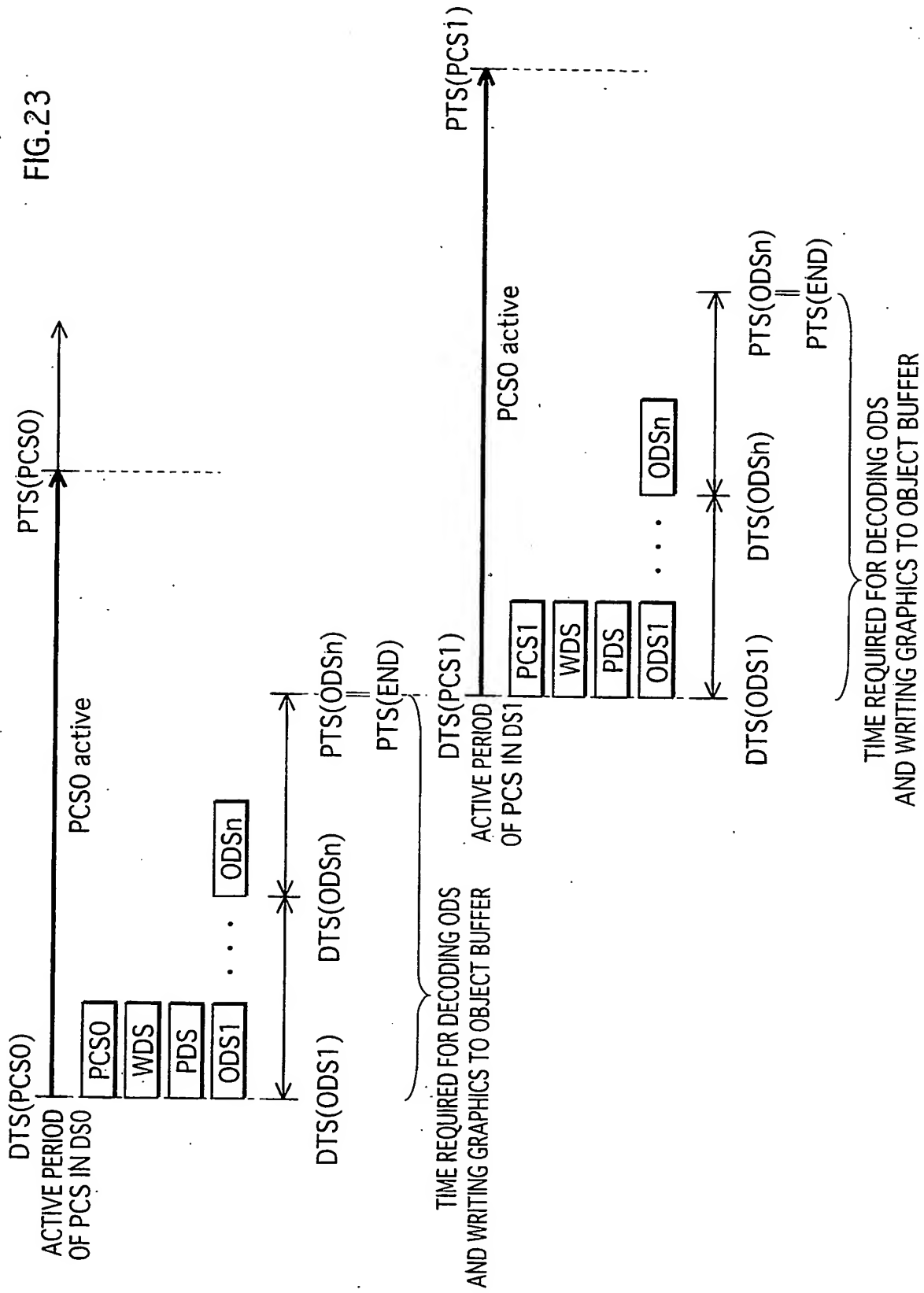


FIG.24

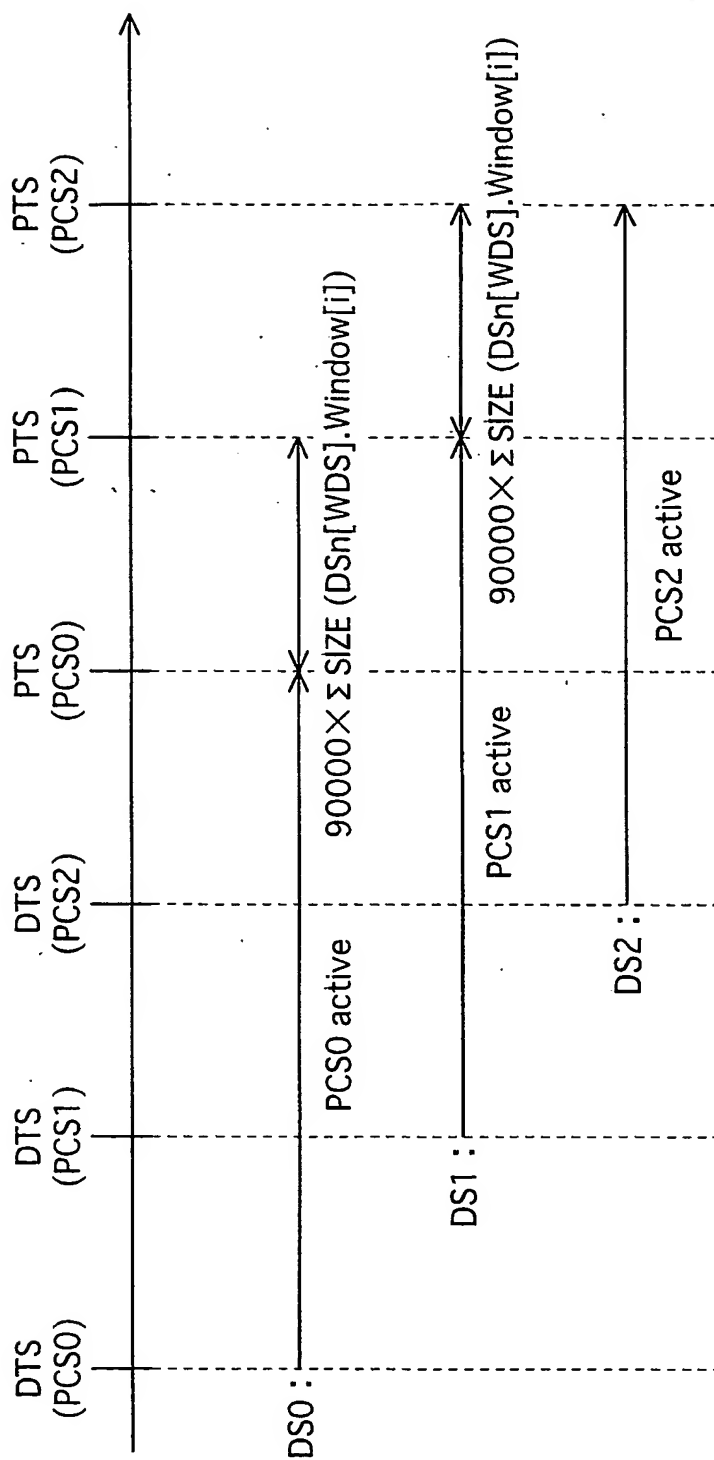


FIG.25A PIPELINE

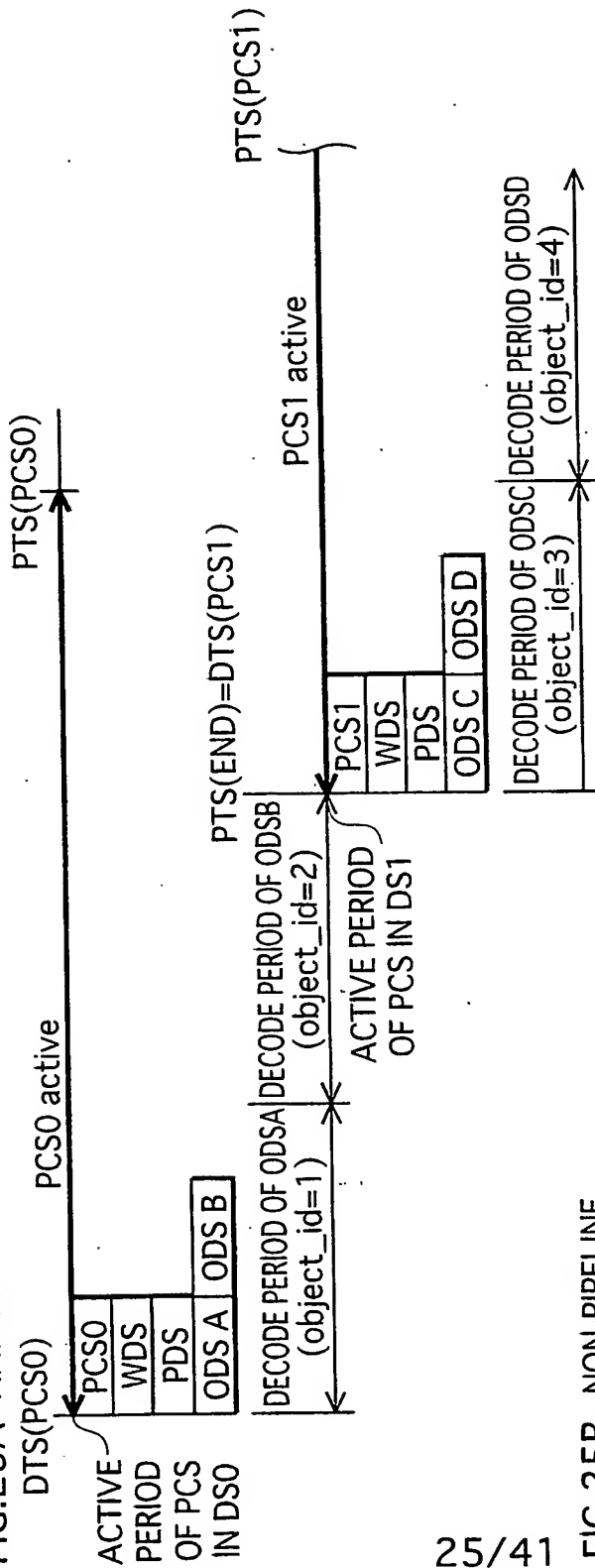


FIG.25B NON-PIPELINE

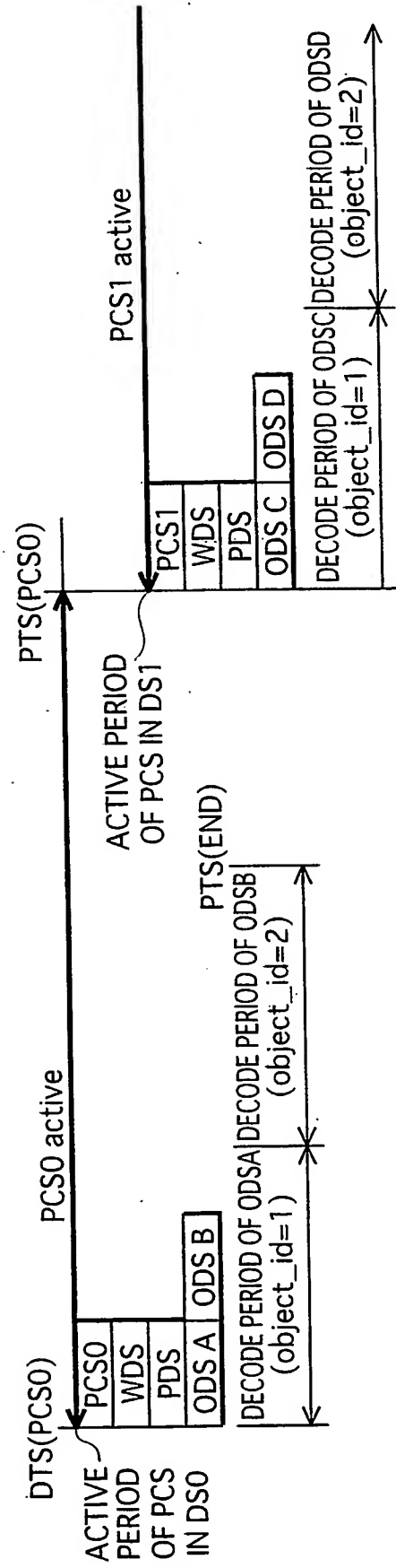


FIG.26

END SEGMENT SHOWS
END OF TRANSFER OF
ODSS IN DS

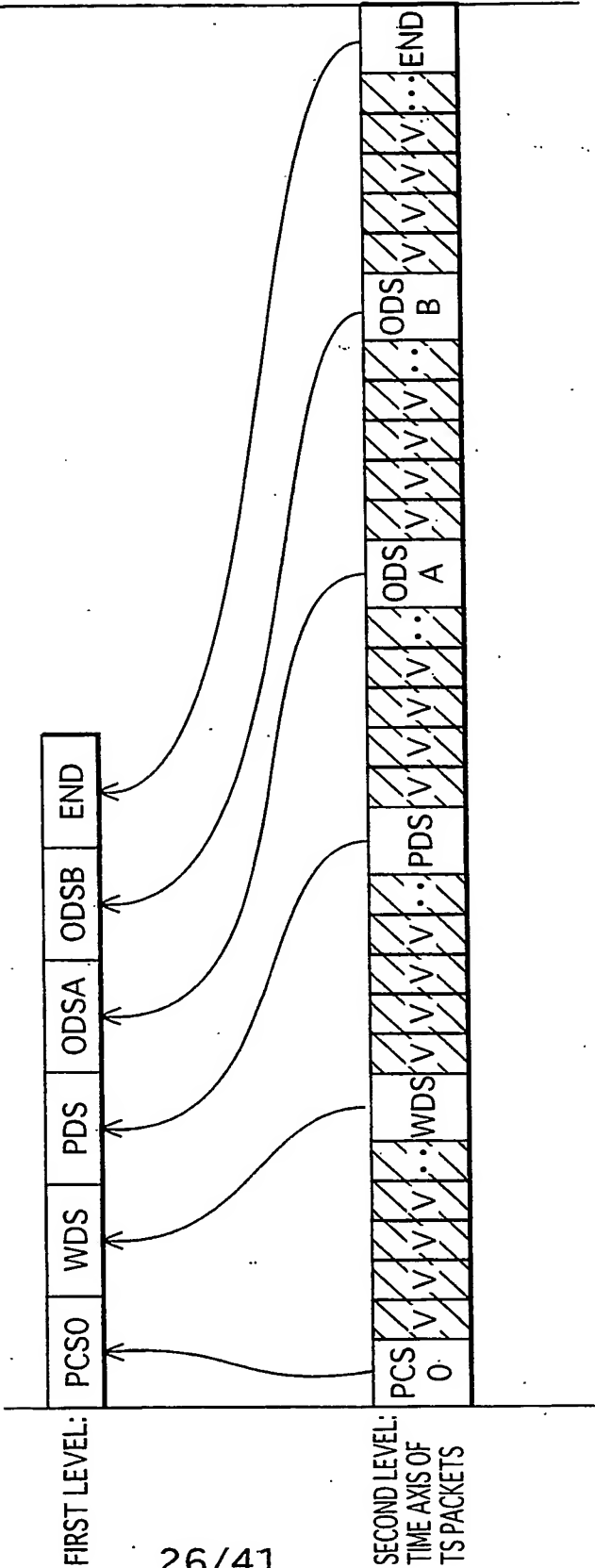


FIG.27A SCREEN COMPOSITION

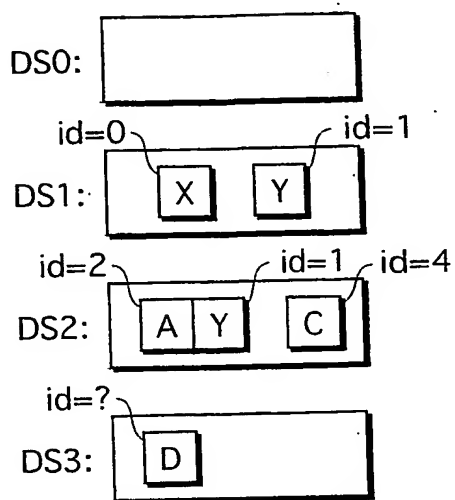


FIG.27B ACTIVE PERIOD OVERLAPPING AND ODS TRANSFER

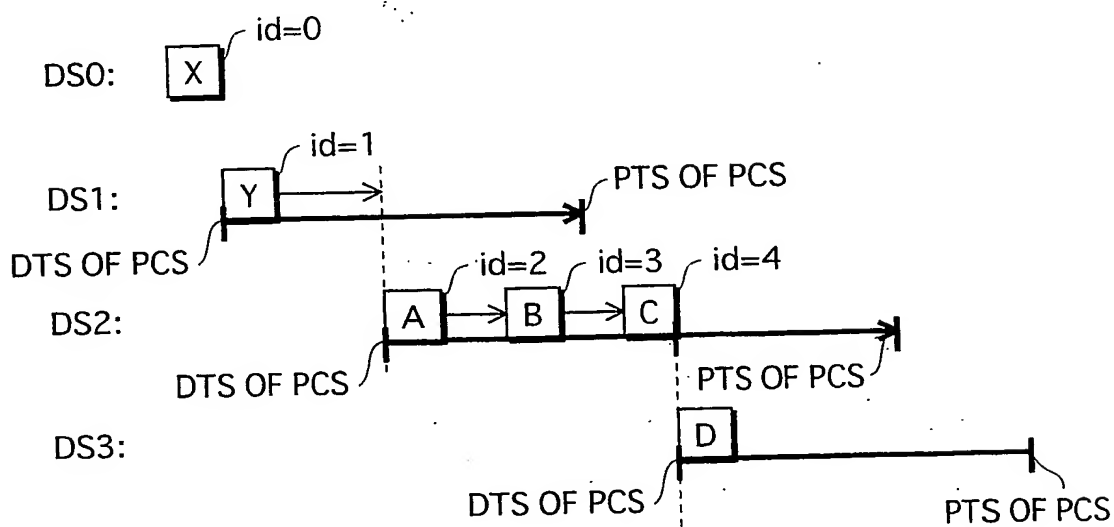


FIG.27C ARRANGEMENT IN OBJECT BUFFER

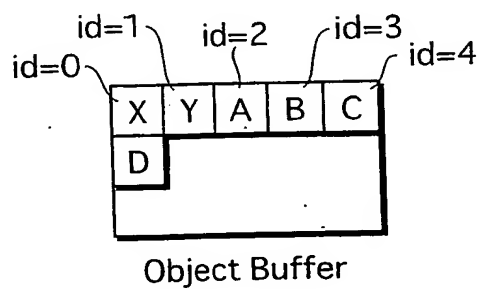


FIG. 28

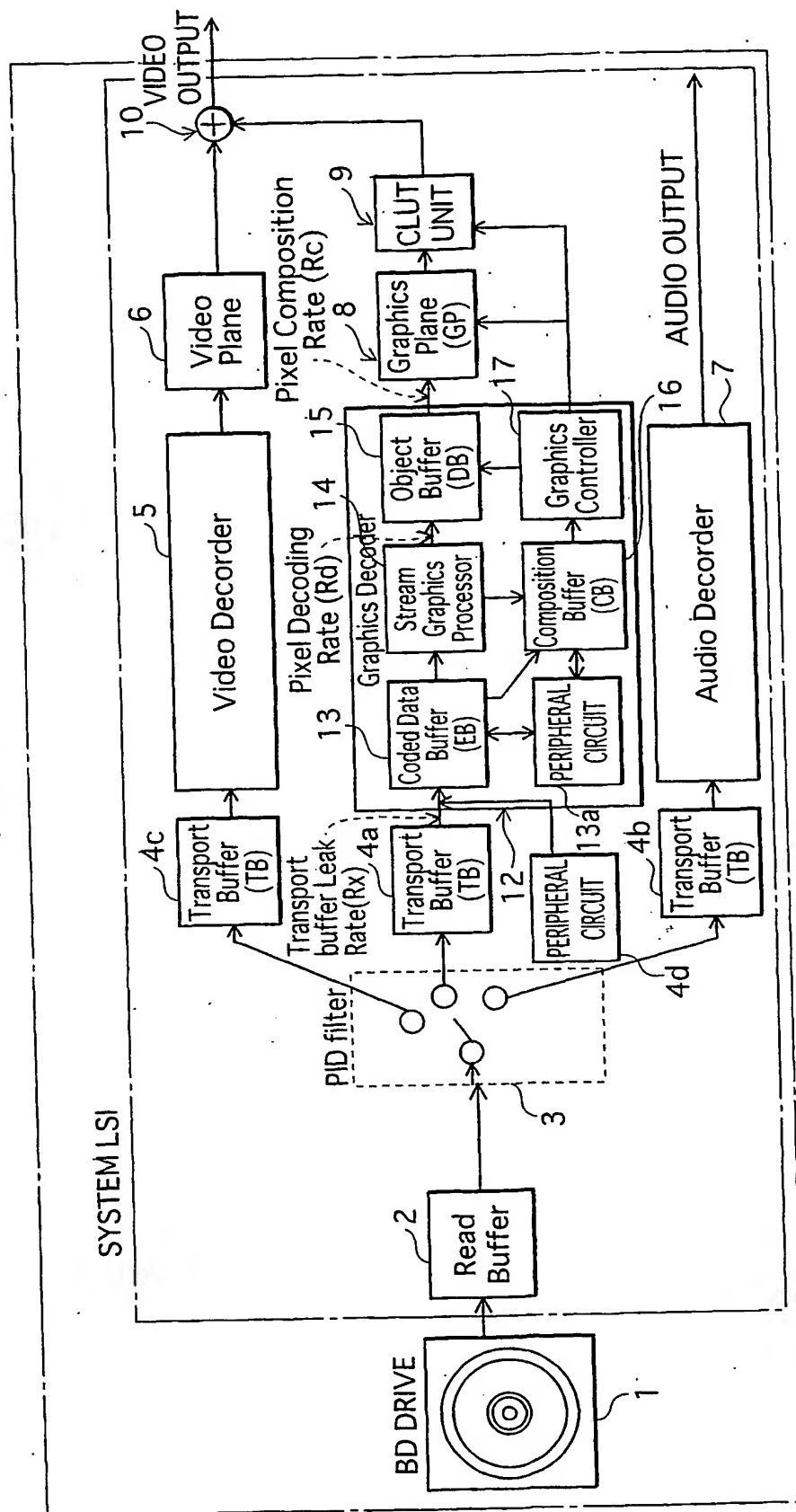
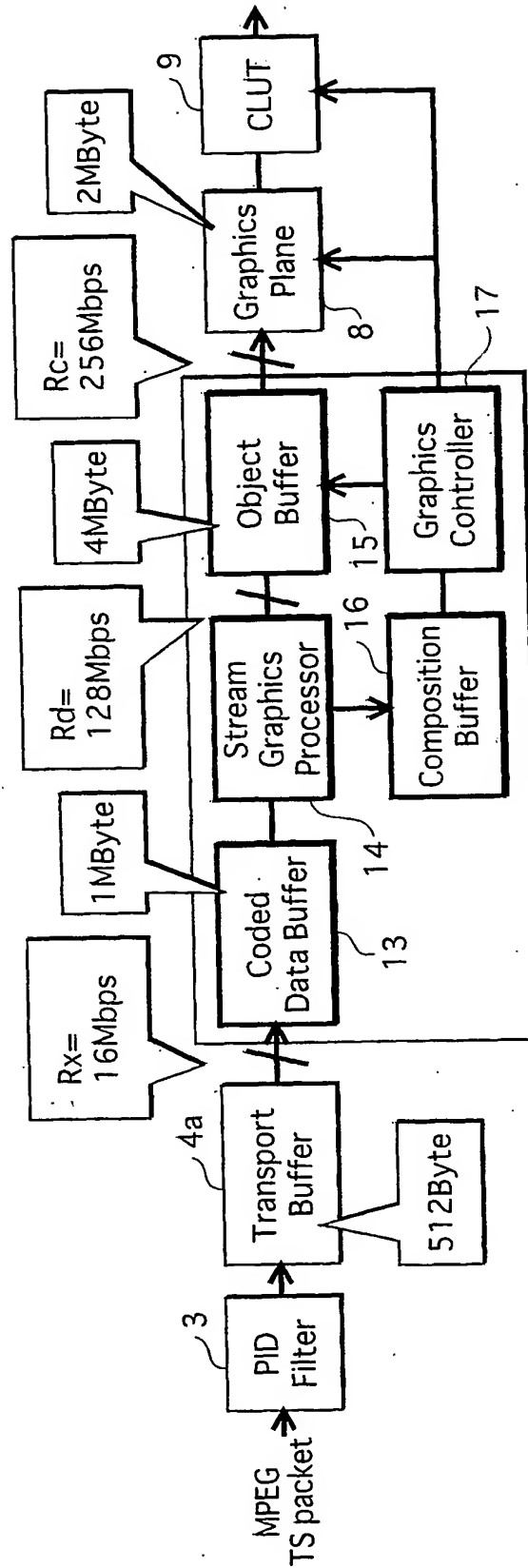
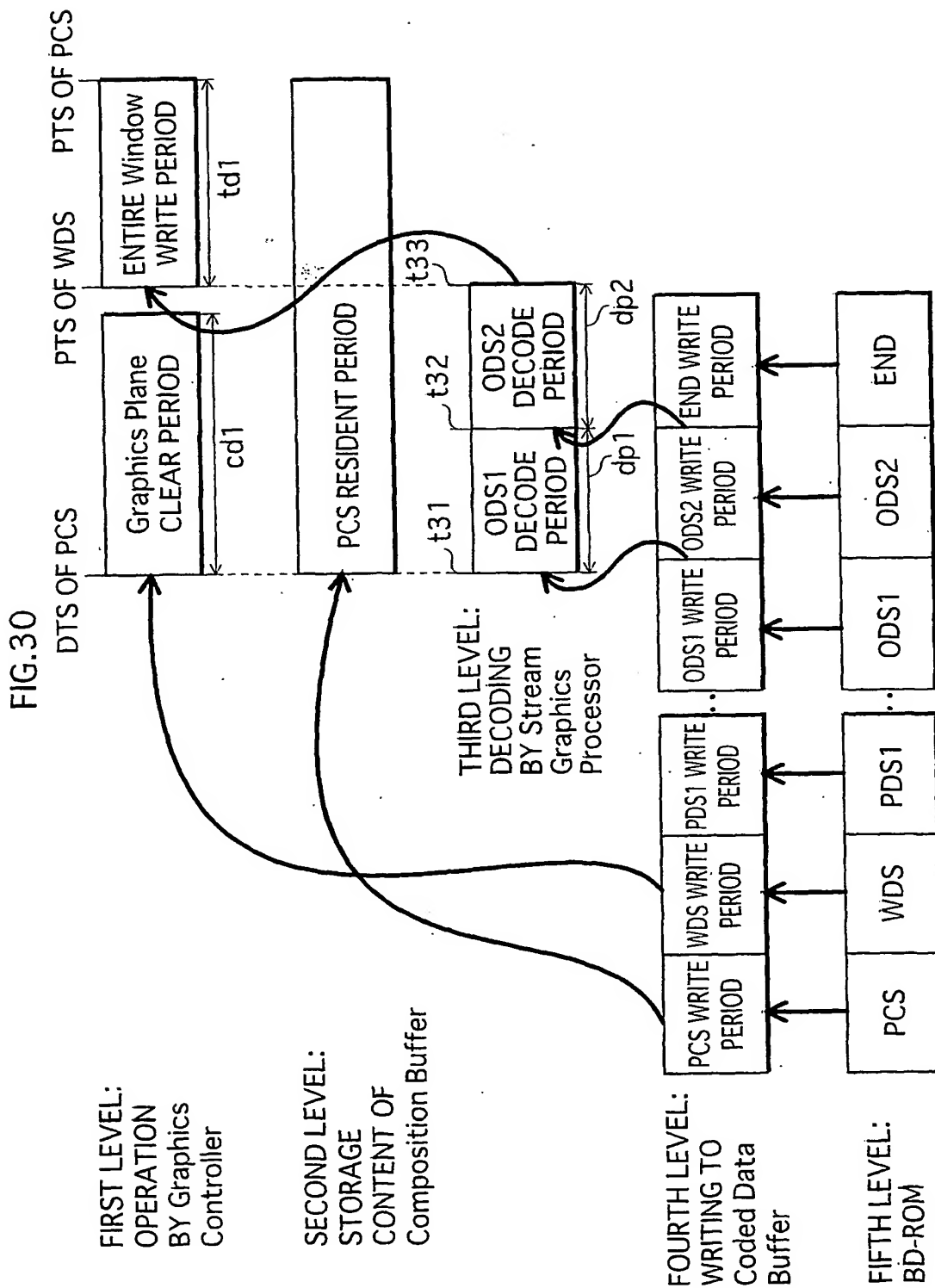
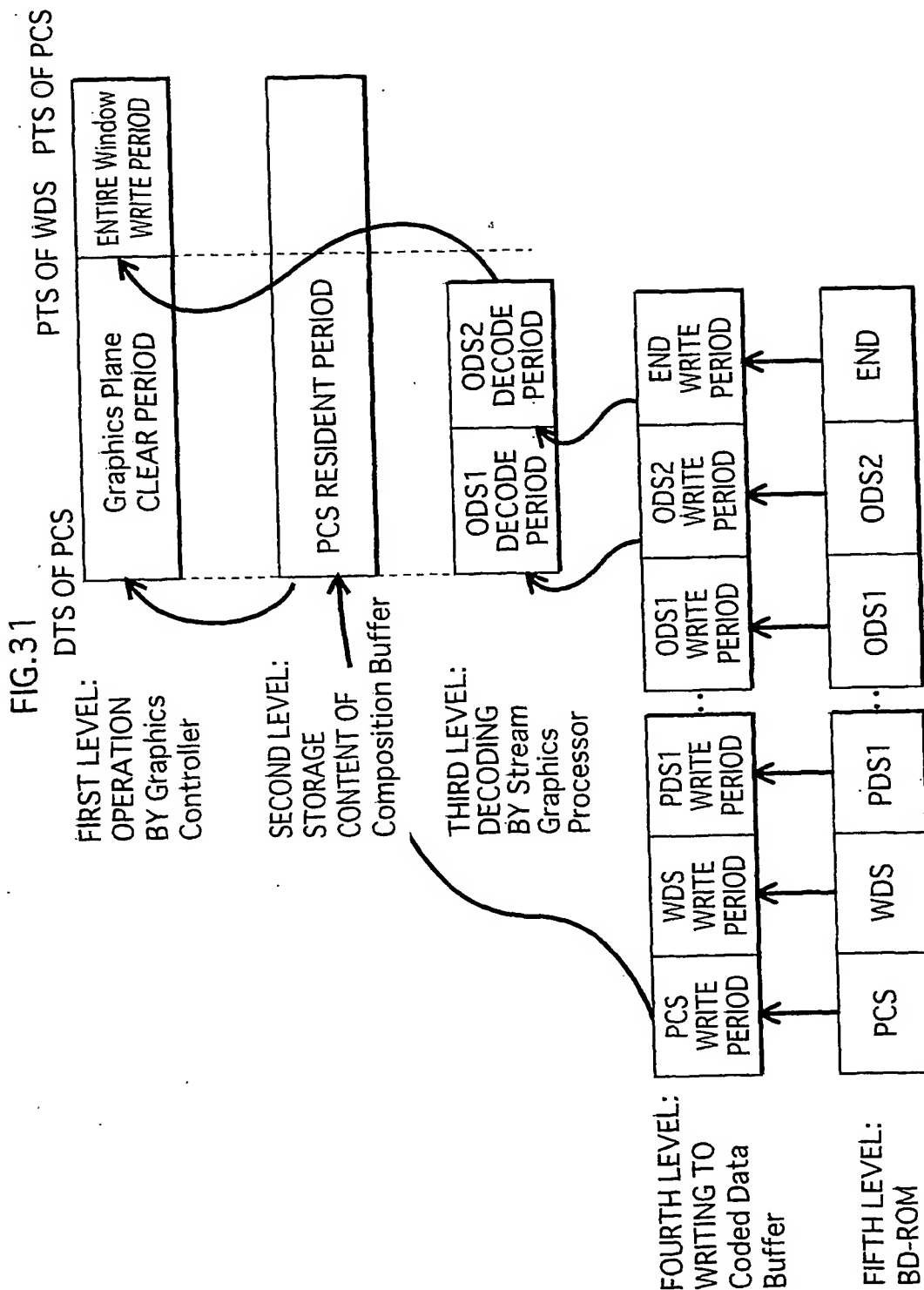


FIG.29







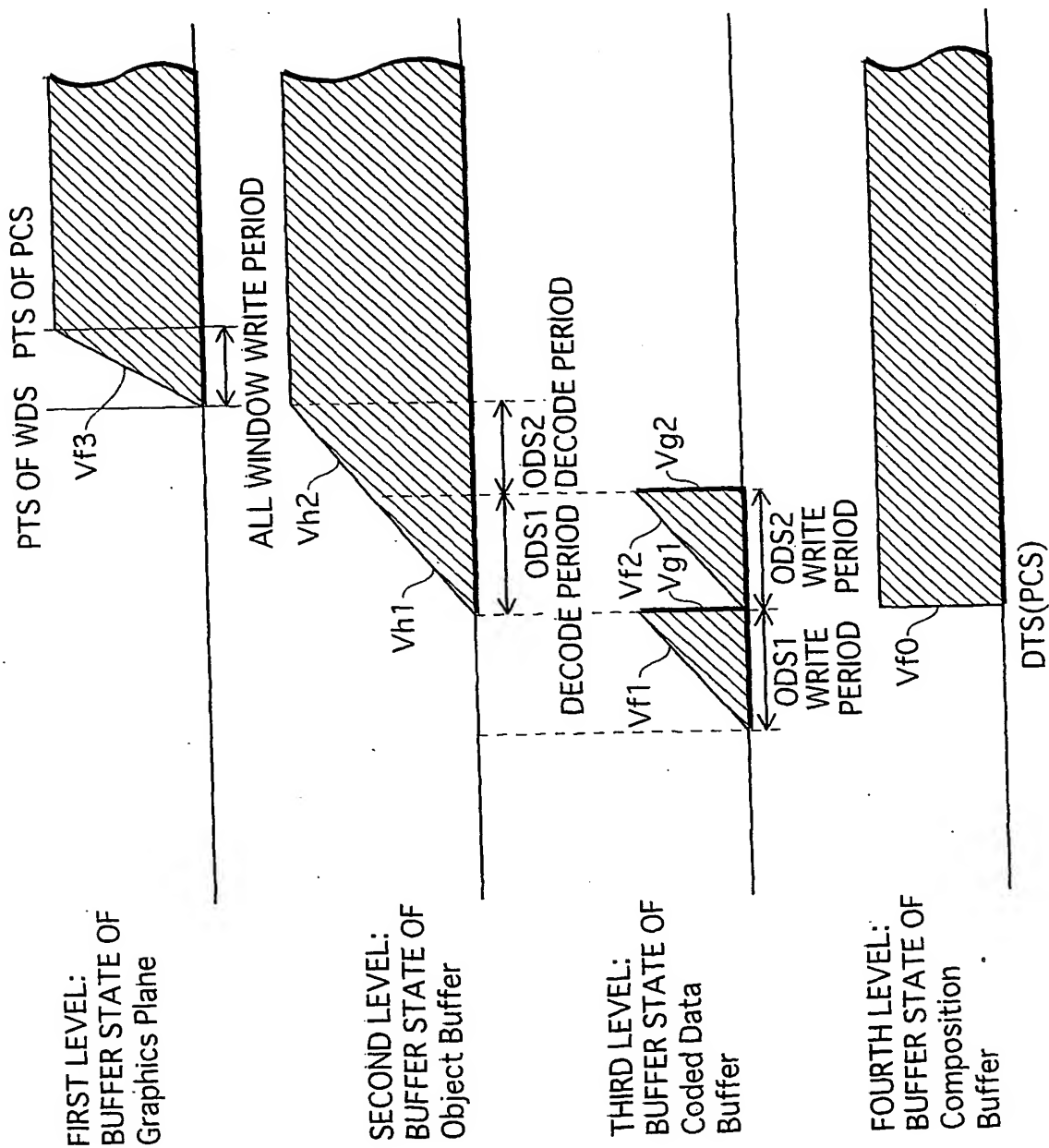


FIG.32

FIG. 33

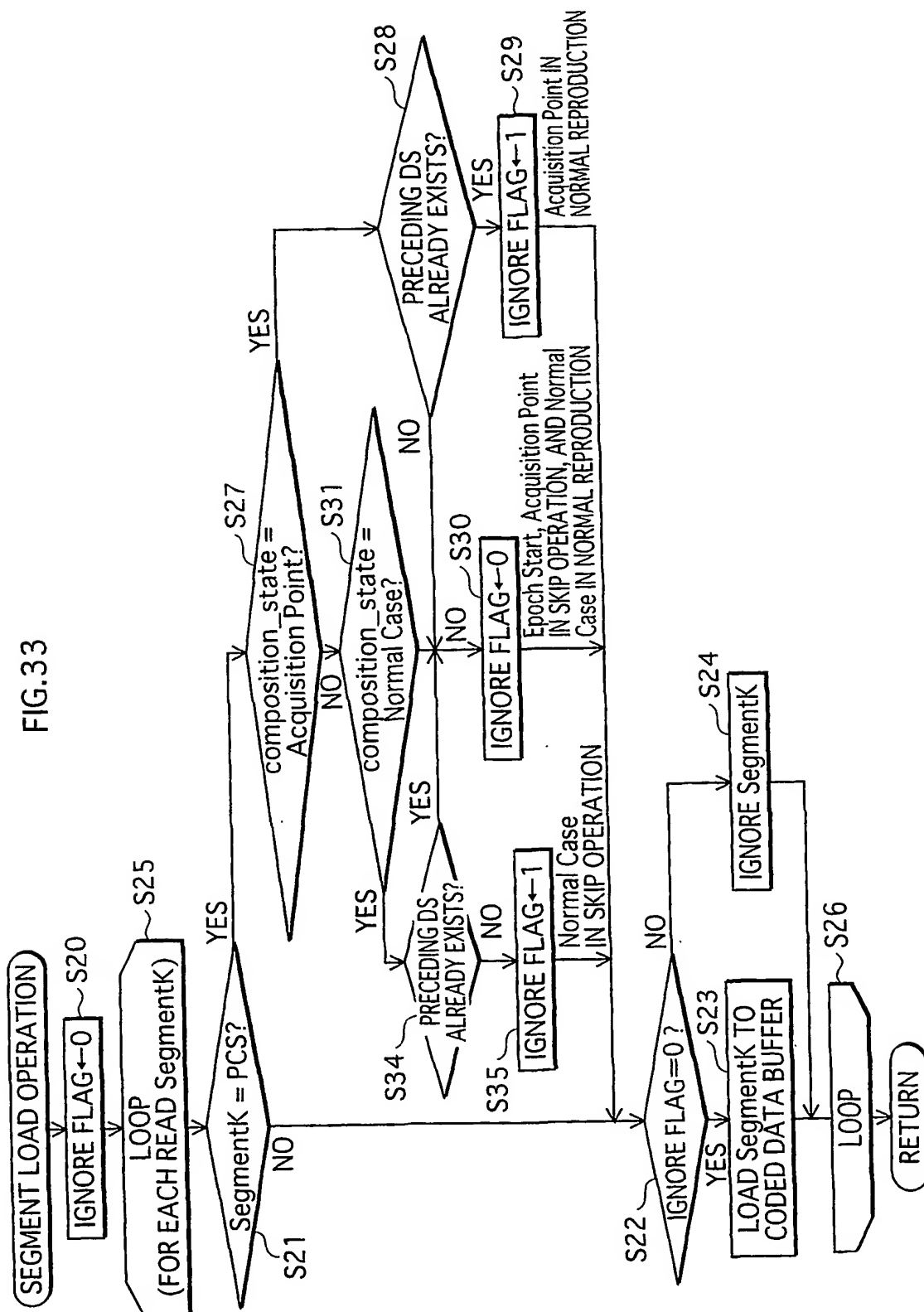


FIG.34

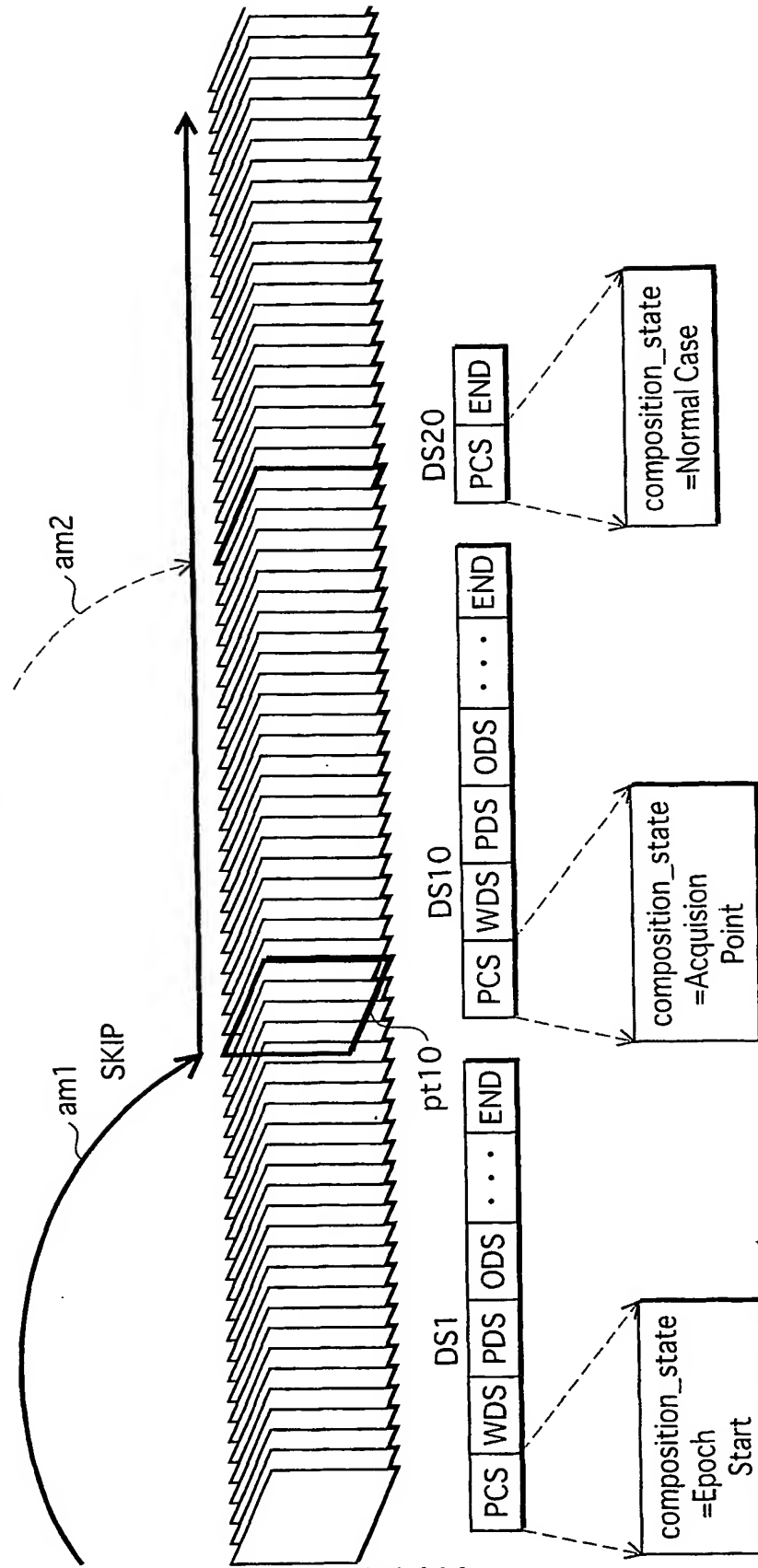


FIG.35

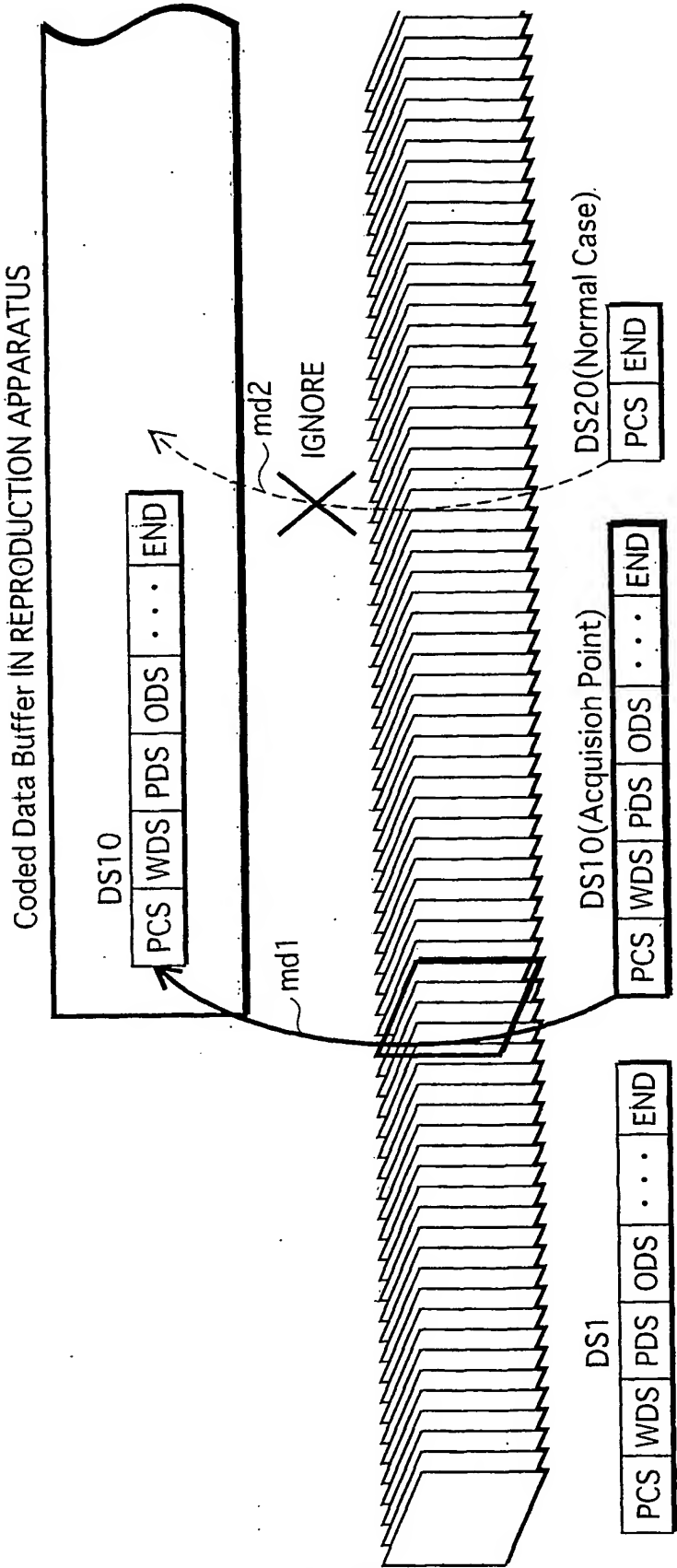


FIG.36

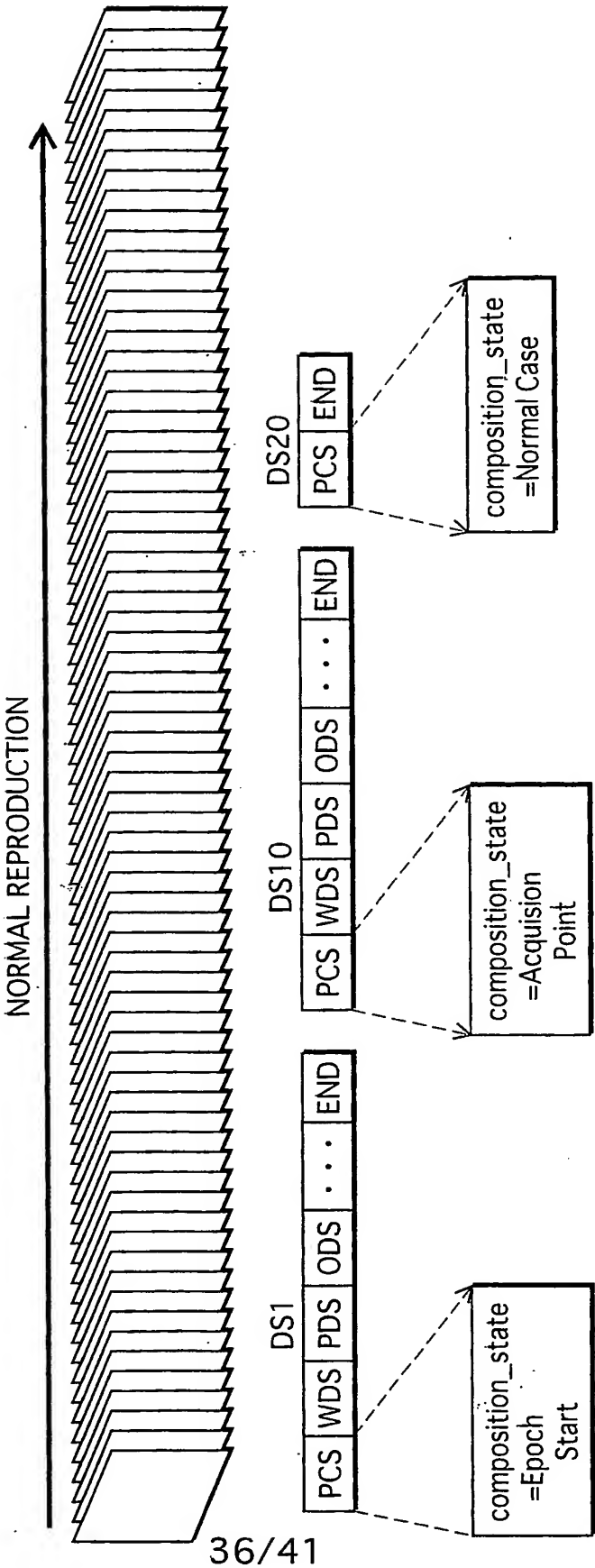


FIG.37

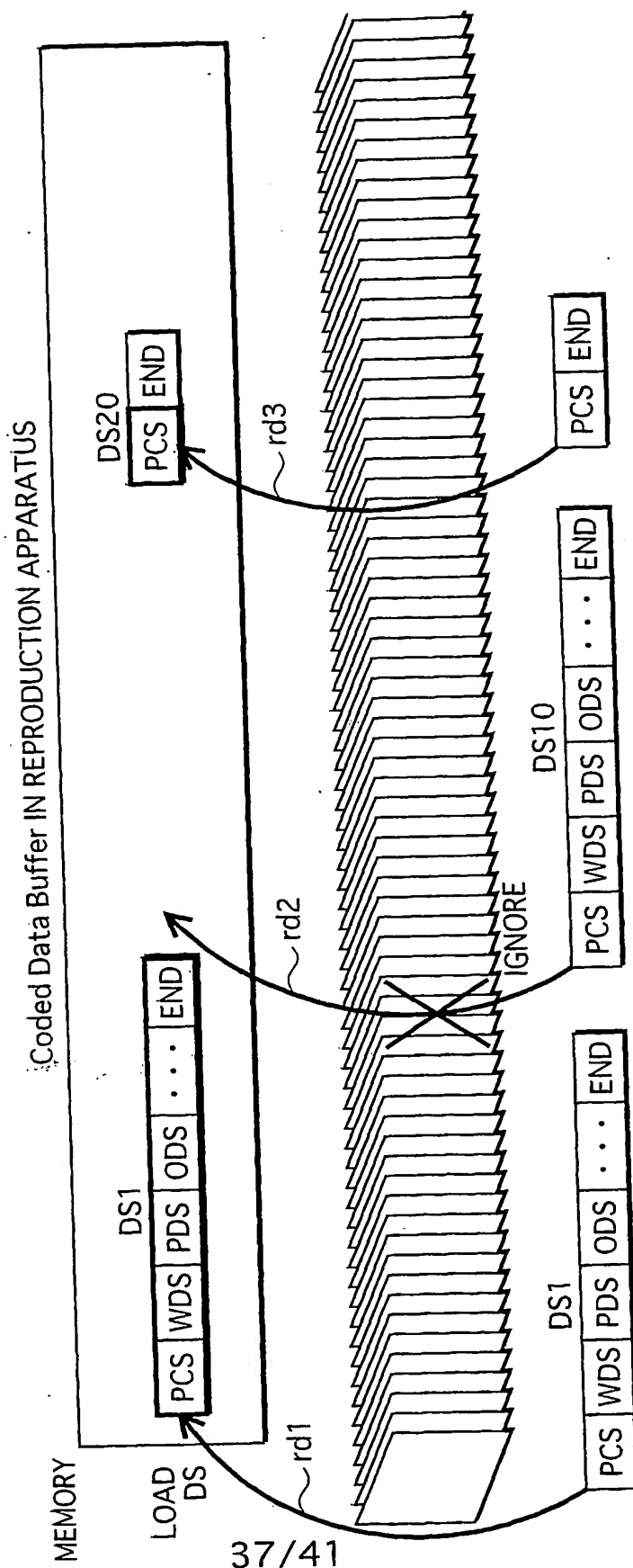


FIG. 38

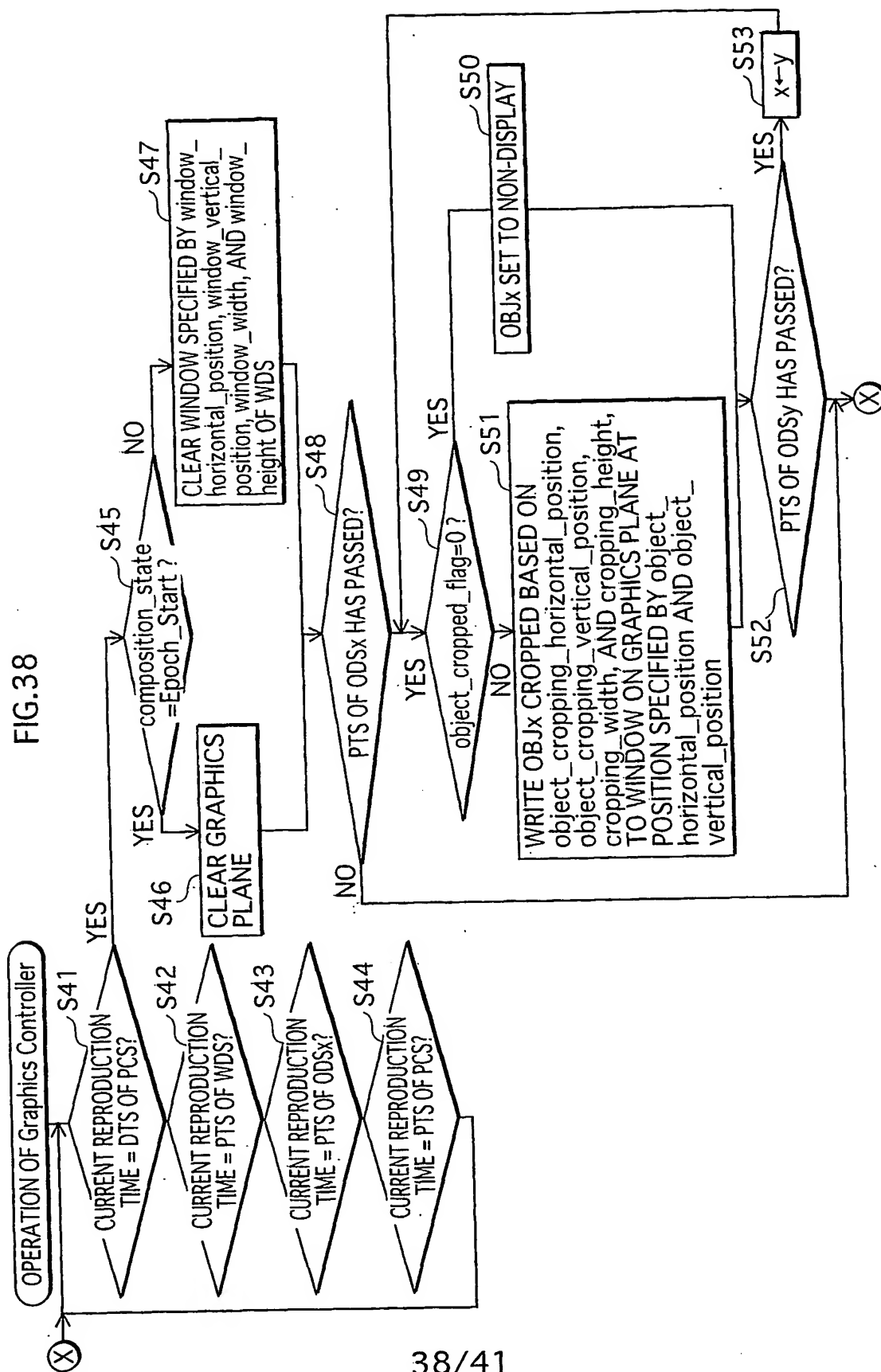


FIG. 39

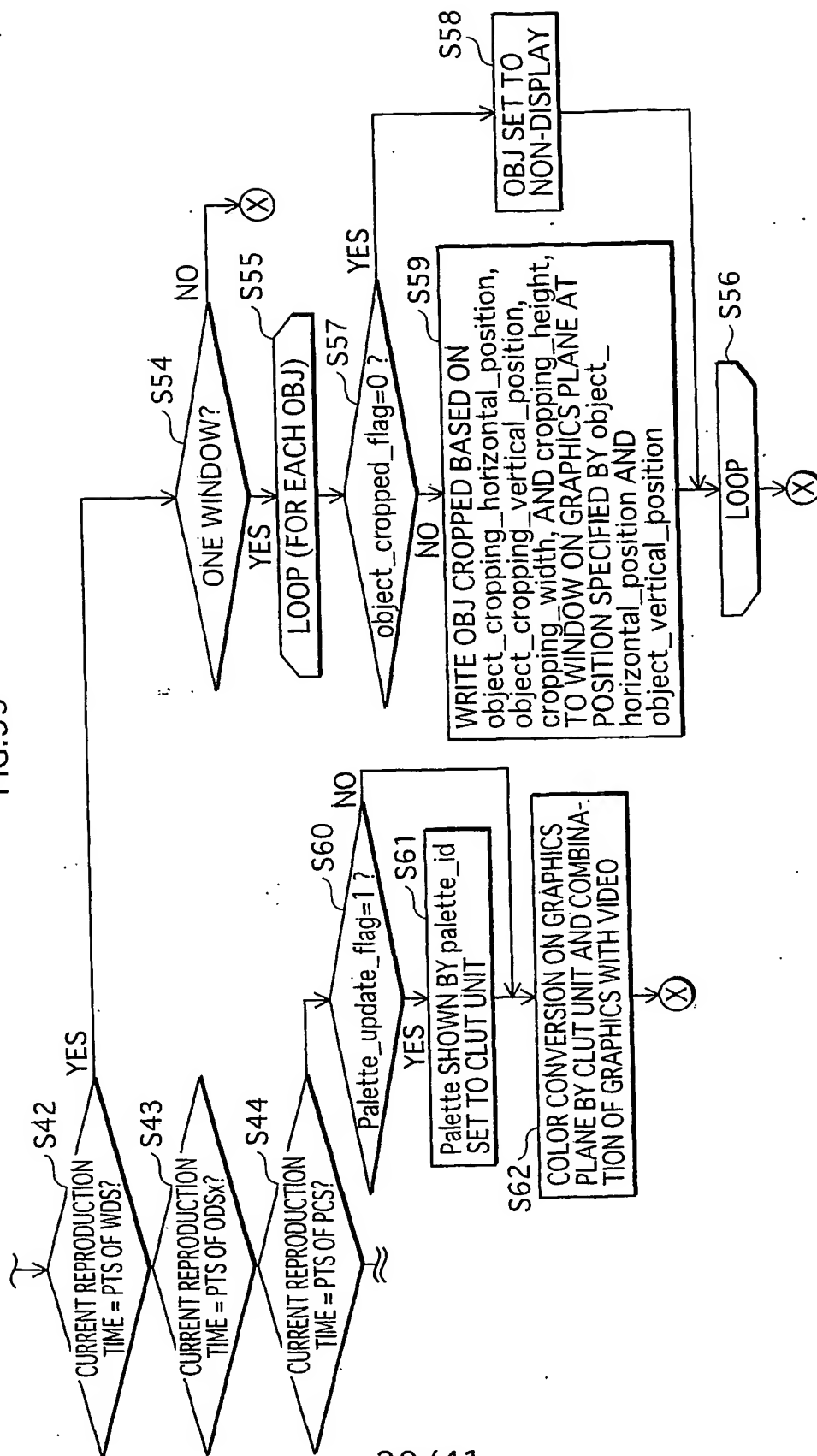


FIG.40

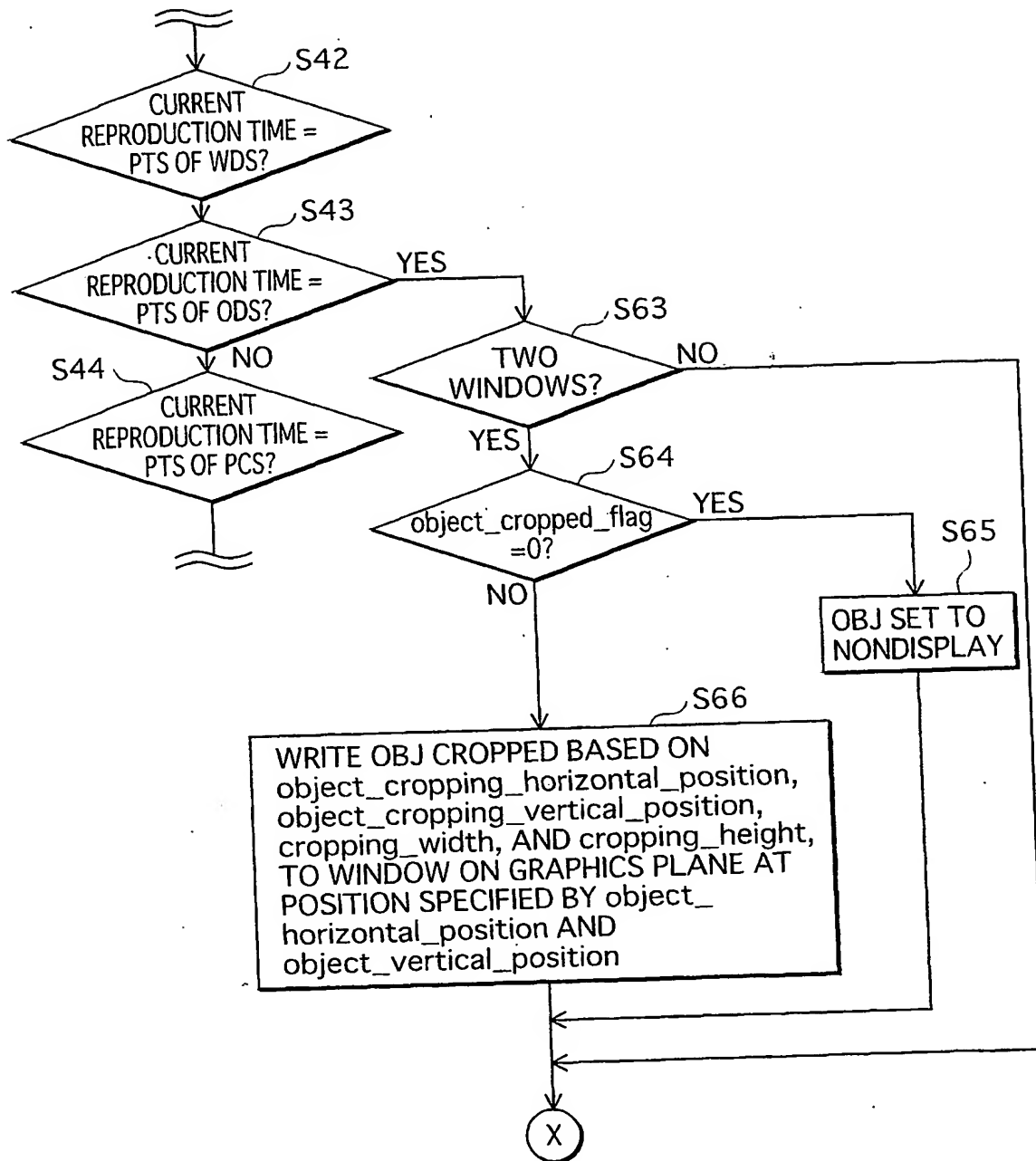


FIG. 41

